## Spidell and Associates

2403 Spaulding, Boise, Idaho 83705 (208) 336-4862

February 28, 2007

William Rogers
Permit Coordinator
Idaho Department of Environmental Quality
1410 North Hilton
Boise, Idaho 83706

RE: Re Submittal of Bear River Zeolite Permit Modification Application

Dear Mr. Rogers,

Please find attached two copies of the re submittal of Bear River Zeolite Permit Modification Application.

The Application is being re submitted at the request of Jonathan Pettit, to remove the Allis Chalmers tube mill from the Emission Estimate, Process Flow Diagram and Application Tables. Over all the PM Emissions decreased approximately 0.05 lb/hr or 0.25 ton per year.

Mr. Kevin Schilling was contacted, as he has approved the Model Protocol. Mr. Pettit reported that Mr. Schilling said that the emissions from the tube mill did not have to be removed from the model analysis, because the emission estimate used for the Model reflects the worst case conditions when the tube mill is included. Copies of the same Model Data Files that were submitted with the first Application are again included in the Application as Appendix D.

The Application Fee and the Model Protocol have been previously submitted. Should you need further information or have any questions please contact John Lawrence at (406) -827-3523 or myself at 336-5862.

Sincerely,

1

cc: John Lawrence, Bear River Zeolite

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Department of Environmental Quality State Air Program

# APPLICATION TO MODIFY PERMIT TO CONSTUCT NUMBER P-040310 Facility ID No. 041-00010

Revision of Application Submitted on February 15, 2007

Bear River Zeolite Preston, Idaho

Prepared For:

John C. Lawrence

President

Bear River Zeolite Company

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#### 1. PURPOSE

This application revises the application submitted on February 15, 2007 to modify Bear River Zeolite Company's Air Quality Permit to Construct Number 777-00278 and to satisfy the requirements of IDAPA 58.01.01.200. The only revision involves the removal of the Allis Chalmers tube mill from the fine products building (building #4). Removing the Allis Chalmers tube mill and the material transfer associated with it reduces the fugitive emissions from the fine products building. The table below summarizes the emissions change.

Fine Products Building (Bldg #4)	P	M	PM10		
Revised Emission Estimates	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	
Previous Total Uncontrolled	9.916	43.432	3.784	16.574	
Previous Total 70% Control	2.975	13.030	1.135	4.972	
minus Tube Mill and	0.394	1.726	0.150	0.657	
1 Material Transfer	0.037	0.162	0.014	0.061	
Total Emission Reductions	0.431	1.888	0.164	0,718	
New Total - Uncontrolled	9.485	41.544	3.620	15.856	
New Total - 70% Control	2.846	12.463	1.086	4.757	

Because the controlled PM-10 emissions estimate from the fine products building (and facility-wide) is only reduced by 0.049 lb/hr and the resulting change to the ambient impact would be insignificant, the air dispersion modeling analysis was left unchanged from the previous application.

As with the earlier application, the installation of a 15-ton per hour roller mill controlled by a cyclone vented to a baghouse and using two 0.75 MMBtu dryers instead of the single 1.0 MMBtu dryer are the reasons for the permit modifications. The earlier application indicated that the generators would be kept on site to be used for emergency backup during temporary power failures. The generators will be removed and the facility will rely entirely on line power.

#### 2. FACILITY DESCRIPTION

Bear River Zeolite Company is located approximately six miles northwest of Preston, Idaho in Freemont County. A location map is included as Figure 1.

The facility employs two crushers, three grinding mills and eleven screening plants to produce various size fractions of zeolite extracted from a nearby pit. Potential maximum throughput for the facility is 20 tons per hour or 175,200 tons per year. Material is transported through the processing plant using conveyor belts, bucket elevators and augers. Two 0.75 MMBtu propane fired rotary drum dryers are used to dry the zeolite. A scaled plan map is included as Figure 2 and a flow diagram is included as Figure 3.

#### 3. FACILITY / AREA CLASSIFICATION

Bear River Zeolite is a synthetic minor because the air pollutants regulated by Title V program are limited to less than 100 tons per year. The facility is located in Franklin County, which is designated as unclassifiable for all criteria air pollutants.

#### 4. EQUIPMENT LISTING

#### 4.1 Primary Crushers

Manufacturer/Type:

Portec Inc., Pioneer Division - Jaw Type

Date of Manufacture:

1973

Maximum Capacity:

300 tons/hr

Manufacturer/Type:

Nordberg Mfg. Co. - Cone Type

Date of Manufacture:

1958

Maximum Capacity:

100 tons/hr

#### 4.2 Grinding Mills

Manufacturer/Type:

Jeffries - Hammer Mill

Date of Manufacture:

????

Maximum Capacity:

50 tons/hr

Manufacturer/Type:

Philadelphia - Hammer Mill

Date of Manufacture:

????

Maximum Capacity:

10 tons/hr

Manufacturer/Type:

Alston Power - Roller Mill

Date of Manufacture:

1979

Maximum Capacity:

15 tons/hr

#### 4.3 Zeolite Dryers (2)

Manufacturer/Type:

Shop Made -  $5' \times 30'$  Drum

Rated Heat Input (Btu):

750,000 each

Fuel Type:

Propane

Fuel Usage (gal/hr)

8.2 each

Control Device

#2 Baghouse

Stack Diameter (ft)

1.31

Stack Height (ft)

8.0

Exhaust Flow (acfm)

2,860

Exhaust Temperature (°F)

160

#### 4.4 Screen Plants

Location	<b>Manufacturer</b>	<u>Size</u>
Building #1	Kohlberg 254T	$5 \text{ ft} \times 12 \text{ ft}$
	Midwest 154T	$4 \text{ ft} \times 8 \text{ ft}$
Building #2	Sweeco	4 ft diam
	Sweeco	4 ft diam
Building #3	Midwest Multi Vibe	$5 \text{ ft} \times 7 \text{ ft}$
Dunuing #3	Midwest Multi Vibe	$5 \text{ ft} \times 7 \text{ ft}$
	Derrick	$3.5 \text{ ft} \times 10.5 \text{ ft}$
	Derrick	$3.5 \text{ ft} \times 10.5 \text{ ft}$
Building #4	Sweeco	18 in diam
	Sweeco	4 ft diam
	Sweeco	30 in diam

#### 5. EMISSION INVENTORY

#### 5.1 Crushed Stone Processing Emissions

Potential emission estimates are based on a maximum facility throughput of 20 tons per hour or 175,200 tons per year.

Emission estimates to determine the potential to emit from crushing, screening and enclosed material transfer operations were calculated using uncontrolled emission factors from AP-42, Table 11.19.2-2. When only one emission factor was available for a pollutant, the other factor was calculated using TSP =  $PM_{10} \times 2.1$  and TSP =  $PM \times 0.8$ . These conversion factors are referenced in AP-42 Table 11.19.2-2 Footnote c and in the Idaho DEQ spreadsheet for estimating emissions from rock crushing operations. These emission factors are summarized in the table below.

		Uncontrolled		
Source	SCC	PM (lb/ton)	PM10 (lb/ton)	
Screening	3-05-020-02-03	3.94E-02	1.50E-02	
Primary Crushing	3-05-020-01	7.00E-04	2.67E-04	
Secondary Crushing	3-05-020-02	6.30E-03	2.40E-03	
Tertiary Crushing	3-05-020-03	6.30E-03	2.40E-03	
Fines Crushing	3-05-020-05	3.94E-02	1.50E-02	
Fines Screening	3-05-020-21	1.86E-01	7.10E-02	
Transfer Point	3-05-020-06	3.70E-03	1.40E-03	

A control efficiency of 70% was applied to emissions enclosed in a building.

Emission estimates for the material transfers not enclosed in a building were calculated using the "drop point" equation in AP-42 Section 13.2.2. The emission estimates for the 18 material transfers are calculated below.

$$EF\left(\frac{lb}{ton}\right) = (k \times 0.0032) \frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}} = (0.35 \times 0.0032) \frac{\left(\frac{10}{5}\right)^{1.3}}{\left(\frac{2.5}{2}\right)^{1.4}} = 2.02E - 03 lb PM_{10} / ton$$

Material Trasfer Emissions =  $(2.02E - 03 lb PM_{10} / ton) (20 tons / hr) (18 transfers) = 0.7272 lb PM_{10} / hr$ 

Where: U = Mean wind speed of 10 miles per hour

M = Moisture content of 2.5% and

k = Particle size multiplier of 0.35 for PM<sub>10</sub>, 0.74 for TSP and TSP / 0.8 (0.925) for PM

The moisture content of 2.5% used in the drop point equation is low for Zeolite, which absorbs moisture readily and must be dried to less than 1% moisture for fine screening. The dried Zeolite will gain up to 6% moisture in less than 24 hours from atmospheric humidity. The raw material likely has a moisture content

considerably higher than 6% making the emission estimates used for the transfer points highly conservative. The mean wind speed of 10 miles per hour used in the equation closely reflects the average wind speed of 4.485 meters per second or 10.03 miles per hour recorded at the Pocatello meteorological weather station from 1987 to 1991.

#### 5.2 Baghouse Controlled Emissions

The facility has six baghouses to control emissions.

Sources	<b>Baghouse</b>	Previous Application
Building 1 / Cone Crusher and Screen	Baghouse #1	Cyclone
Two 0.75 MMBtu Dryers (Replaces 1.0 MMBtu Dryer)	Baghouse #2	Baghouse #1
Building 2 / Philadelphia Hammer Mill and Screens	Baghouse #3	Baghouse #3
Building 3 / Jeffries Hammer Mill / Coarse Products Bldg	Baghouse #4	Baghouse # 2
Building 4 / Fine Products Building	Baghouse #5	000 Day 100 100 100
Alston Power Roller Mill	Baghouse #6	san other sale of the com

Particulate emissions from the six baghouses were calculated from the grain loading emission limit of 0.022 gr/dscf in 40 CFR 60.672. PM-10 emissions were estimated from the particle size distribution table in AP-42 Appendix B.2 Category 4 which shows 85% of the emissions are under 10 microns. The table below summarizes the baghouse particulate matter emissions. An example calculation for Baghouse #1 is also included.

Baghouse		Exhaust Flow	PM		PM10	
ID	Description	(dscf/m)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
BGH1	Primary Crushing Circuit	4,997.3	0.942	4.128	0.801	3.508
BGH2	0.75 MMBtu Dryers	2,345.7	0.442	1.937	0.376	1.647
BGH3	Philadelphia Hammer Mill	3,186.3	0.601	2.632	0.511	2.237
BGH4	Jeffries Hammer Mill	1,983.3	0.374	1.638	0.318	1.392
BGH5	Fine Products	2,829.7	0.534	2.337	0.454	1.987
BGH6	Alston Hammer Mill	3,294.0	0.621	2.721	0.528	2.313

BGH1 PM Emissions (lb/hr) = 
$$\frac{\left(4,997.3 \frac{\text{dscf}}{\text{min}}\right) \left(0.022 \frac{\text{grains}}{\text{dscf}}\right) \left(60 \frac{\text{min}}{\text{hr}}\right)}{7,000 \frac{\text{grains}}{\text{lb}}} = \mathbf{0.942 \text{ lb PM/hr}}$$

BGH1 PM – 10 Emissions (lb / hr) = (0.942 lb PM / hr)(0.85) = 0.801 lb PM - 10/hr

#### 5.3 Process Fugitive Emissions

A control efficiency of 70% was applied to fugitive emissions generated from process operations inside buildings. This control efficiency was obtained from "<u>Fugitive Dust Control Technology</u>" Table 2.1.3-3. Potential emissions from the crushed stone processing operations enclosed in buildings are summarized in the table below.

				SHOLOSOU L RODOS				
		Uncontrolle	ed Emissions			Controlled	Emissions	
	I	PM		VI10	F	· M'	Pi	<b>/110</b>
Building	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Building 1	5.120	4.485	1.947	1.705	1.536	1.346	0.584	0.512
Building 2	1.467	6.425	0.558	2.444	0.440	1.928	0.167	0.733
Building 3	5.180	9.075	1.970	3.451	1.554	2.723	0.591	1.035
Building 4	9.485	41.544	3.620	15.856	2.846	12.463	1.086	4.757
Total	21.252	61.530	8.095	23.457	6.376	18.459	2.428	7.037

**Building Enclosed Process Emissions** 

Process emissions from the jaw crusher and the material transfers not inside a building were calculated as uncontrolled emissions.

Source	P (lb/hr)	M (tons/vr)	PN (lb/hr)	110 (tons/vr)			
Jaw Crusher	0.210	0.061	0.080	0.023			
Outside Transfers (19)	1 010	8 404	0.727	3 185			

**Unenclosed Process Emissions** 

#### 5.4 Zeolite Dryer Emission Estimates:

The facility employs two 0.75 MMBtu propane fired drum dryers to remove moisture from the Zeolite. Exhaust from the dryers is vented through baghouse #2. Dryer emission estimates were calculated using emission factors in AP-42 Table 1.5-1 (Liquefied Petroleum Gas Combustion) and Tables 1.4-2, 1.4-3 and 1.4-4 (Natural Gas Combustion). The AP-42 emission factors were converted from lb/10<sup>6</sup> scf for natural gas and lb/10<sup>3</sup> gal for propane to lb/MMBtu using higher heating values of 1,020 MMBtu/10<sup>6</sup> scf of natural gas and 91.5 MMBtu/10<sup>3</sup> gal of propane. Examples of converting the natural gas and propane emission factors to lb/MMBtu are shown below.

$$\frac{0.0005 \text{ ib lead}/10^6 \text{ scf natural gas}}{1,020 \text{ MMBtu}/10^6 \text{ scf natural gas}} = 4.90\text{E} - 07 \text{ lb lead/MMBtu}$$

$$\frac{14 \text{ lb NO}_2/10^3 \text{ gal propane}}{91.5 \text{ MMBtu}/10^3 \text{ gal propane}} = 1.53 \text{E} - 01 \text{ lb NO}_2/\text{MMBtu}$$

Emissions estimates were calculated by multiplying the emission factor in lb/MMBtu by the dryer heat input in MMBtu/hr as shown below for NO<sub>2</sub> emissions from both 0.75 MMBtu dryers.

$$\frac{1.53E - 01 \text{ lb NO}_2}{\text{MMBtu}} \times \frac{0.75 \text{ MMBtu}}{\text{hour}} \times 2 = 2.295E - 01 \text{ lb NO}_2 / \text{hour}$$

Potential emissions for the criteria air pollutants from the propane dryers are shown in the table below.

E-CVAIGE BERY ALLERS SOLLS							
Criteria	Emission Factors	Potential Emissions 0.75 MMBtu Dryers (					
Pollutants	(Ib/MMBtu)	(lb/hr)	(T/yr)				
PM	0.022 gr/dscf	0.442	1.937				
PM-10	85% of PM	0.376	1.647				
SO2	2.19E-04	3.285E-04	1.44E-03				
NO2	1.53E-01	2.295E-01	1.005				
CO	2.08E-02	3.120E-02	0.137				
VOC	5.46E-03	8.190E-03	0.036				
Lead	4 90F-07	7 350E-07	3.22E-06				

**Zeolite Dryer Emissions** 

PM and PM-10 emissions in the table were calculated from the grain loading emission limit and particle size distribution for baghouse 2.

#### 5.5 Mine Site Drilling, Blasting and Rock Truck Loading Emission Estimates

Fugitive emissions associated with the activities at the mine site include drilling, blasting, loading and transporting the raw material to the processing plant. Currently, blasting is not required to extract the zeolite but may be needed when deeper ore is accessed. The zeolite is loaded into 20-ton capacity rock trucks using a 1.5 cubic yard loader. The rock trucks transport the zeolite to the processing plant on a 3/4 mile long gravel haul road.

Potential emissions were based on a maximum plant capacity of 20 tons per hour or 175,200 tons per year. The TSP emission factors were converted to PM and PM<sub>10</sub> emission factors using PM =  $\frac{\text{TSP}}{0.8}$  and PM<sub>10</sub> =  $\frac{\text{TSP}}{2.1}$ 

The emission factors for drilling and blasting are for a granite quarry from Table 2.1.4 of "<u>Fugitive Dust Control Technology</u>", 1983. Estimated emissions for the drilling and blasting operations are summarized in the table below.

	Emission Factors					Potential Emissions			
Emission Source	TSP (lb/ton mined)	PM (lb/ton mined)	PM10 (lb/ton mined)	PM (lb/hr)	(tons/yr)	PM-10 (lb/hr)	(tons/yr)		
Drilling	0.0080	0.0100	0.0038	0.2000	0.8760	0.0762	0.3337		
Blasting	0.1600	0.2000	0.0762	4.0000	17.5200	1.5238	6.6743		
			Total	4.2000	18.3960	1.6000	7.0080		

**Drilling and Blasting Emissions** 

Estimated emissions for the rock truck loading operations were calculated using the "drop point" equation in AP-42 13.2.4 with the same factors used to calculate emissions for the transfer points. Estimated emissions for the rock truck loading operation are shown in table 8.

	Emission	i Factors	Load		Potential	Emissions	
Source	PM lb/ton	PM10 lb/ton	Rate (tons/hr)	P lb/hr	M   tons/vr	PN lb/hr	f10 tons/vr
Source	IUZUII	ID/EUM	(consum)	10/101	tonayı	1671111	tona'yı
Rock Truck Loading	5.33E-03	2.02E-03	20	1.07E-01	4.67E-01	4.04E-02	1.77E-01

#### 5.6 Vehicle Traffic Emission Estimates

Emission estimates for vehicle traffic on the haul and plant roads were calculated using the equation in AP-42 13.2.2 and are summarized below.

#### 5.7 Facility-wide Emission Summary

The table below summarizes the facility-wide potential emissions for criteria air pollutants.

Facility-Wide PM and PM-10 Emissions

	F	M'	PM <sub>10</sub>		
SOURCE	lb/hr	tons/yr	lb/hr	tons/yr	
Baghouse #1	0,942	4.128	0.801	3.508	
Baghouse #2 (Dryers)	0,442	1.937	0,376	1.647	
Baghouse #3	0.601	2.632	0.511	2.237	
Baghouse #4	0.374	1.638	0.318	1.392	
Baghouse #5	0.534	2.337	0.454	1.987	
Baghouse #6	0.621	2.721	0.528	2,313	
Process Building 1	1.536	1.346	0.584	0.512	
Process Building 2	0.440	1.928	0.167	0.733	
Process Building 3	1.554	2,723	0.591	1.035	
Process Building 4	2.846	12.463	1.086	4.757	
Jaw Crusher	0.210	0.061	0.080	0.023	
Outside Material Transfers	1.919	8.404	0.727	3.185	
Mine Site Drilling	0.2000	0.8760	0.0762	0.3337	
Mine Site Blasting	4.0000	17.5200	1.5238	6.6743	
Rock Truck Loading	0.107	0.467	0.040	0.177	
Vehicle Traffic	11.002	48.187	3.961	17.347	
Total Emissions	16.219	109.367	7.823	47.862	

Dryer CO, SO2, NOx, Lead Emissions

lb/hr	CO	St	O2	No	Ox	P	b
	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
0.0312	0.137	3.29E-04	1.44E-03	0.23	1.007	7.35E-07	3.22E-06

Toxic air pollutants from the dryers did not exceeded the emission screening levels of IDAPA 58.01.01.585 or 586.

Spreadsheets detailing the emission factors, emission rates and equipment operating parameters are included in Appendix A. The state application forms are included in Appendix B.

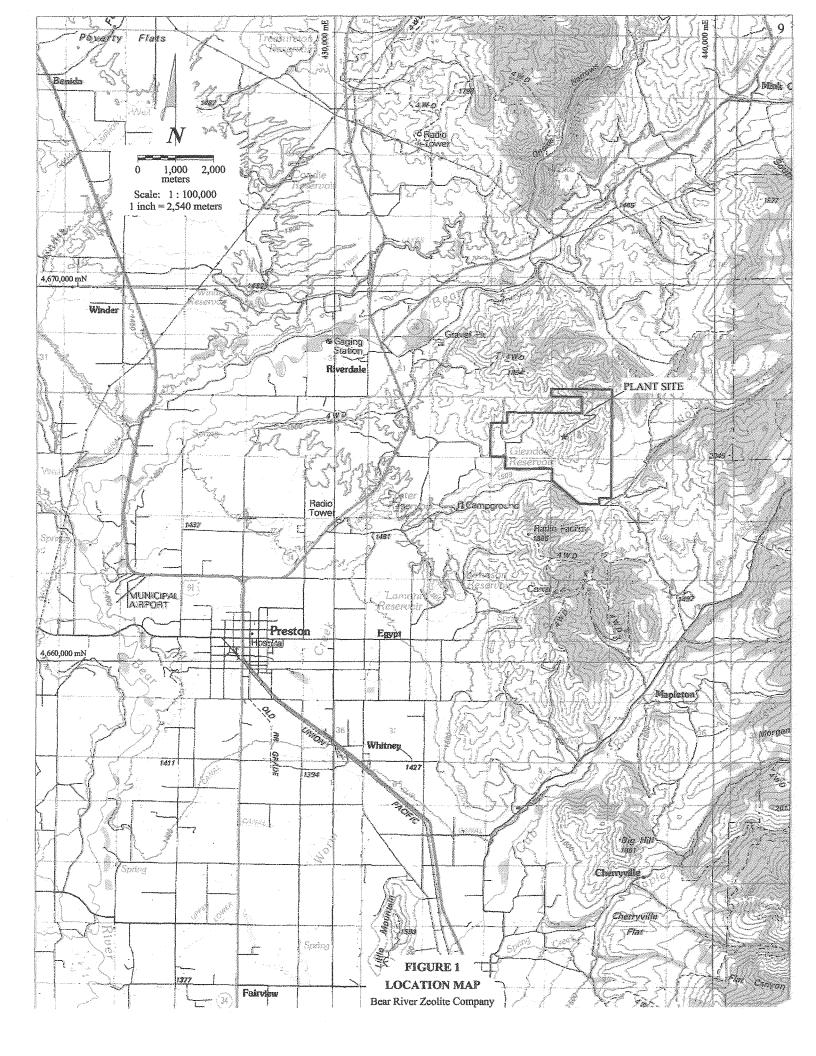
### 6.0 Ambient Air Impact Assessment

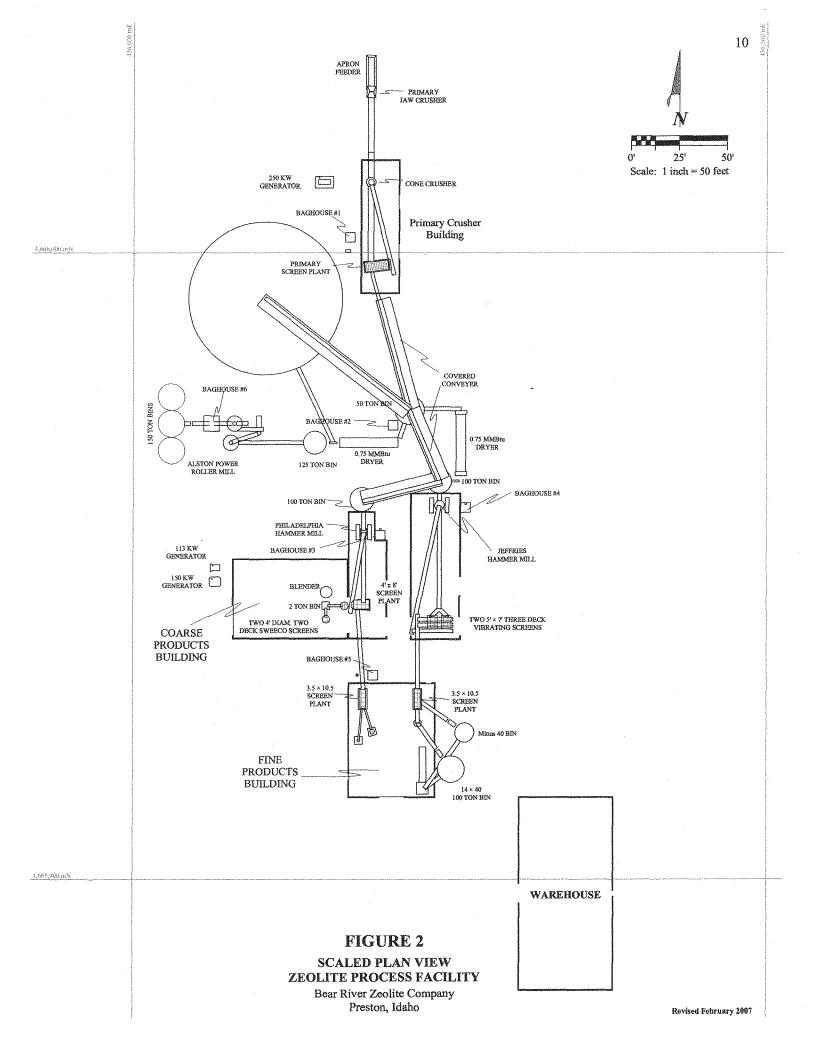
The ambient impact assessment was performed using AERMOD. The significant impact analysis for criteria air pollutants showed that PM-10 required a full impact analysis. Results of the NAAQS analysis for PM-10 and lead are summarized in the table below.

#### **NAAOS** Analysis

Pollutant	Averaging Period	Ambient Impact (µg/m³)	Background Concentration (µg/m³)	Total Ambient Concentration (µg/m³)	Regulatory Limit (µg/m³)	Percent of NAAQS
PM-10	24-hour	49.53464	73	122.53464	150	81.69
F1VI-1U	Annual	4.43361	26	30.43361	50	60.87
Lead	Quarterly	1.35E-05	0,03	0.0300	1.5	2.00

Appendix C contains details of the ambient impact modeling analysis.





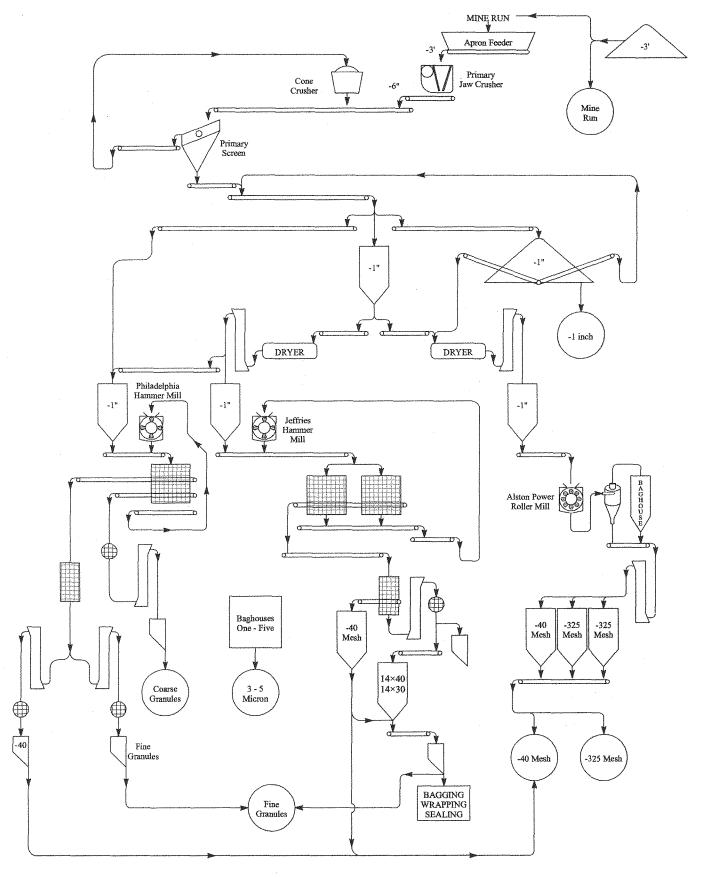


FIGURE 3

PROCESS FLOW DIAGRAM
Bear River Zeolite Company
Preston, Idaho

## APPENDIX A

**Emission Factors and Estimates** 

Bear River Zeolite Company, Inc.

# **Emission Factors - Crushed Stone Processing Operations Bear River Zeolite Company**

		Uncon	trolled
Source	SCC	PM (lb/ton)	PM10 (lb/ton)
Screening	3-05-020-02-03	3.94E-02	1.50E-02
Primary Crushing	3-05-020-01	7.00E-04	2.67E-04
Secondary Crushing	3-05-020-02	6.30E-03	2.40E-03
Tertiary Crushing	3-05-020-03	6.30E-03	2.40E-03
Fines Crushing	3-05-020-05	3.94E-02	1.50E-02
Fines Screening	3-05-020-21	1.86E-01	7.10E-02
Transfer Point	3-05-020-06	3.70E-03	1.40E-03

Emission Factors From AP42 Table 11.19.2-2.

When Only One Pollutant Was Listed, the Following Conversion Factors Were Used:  $TSP = PM10 \times 2.1$  and  $TSP = PM \times 0.8$ 

Drop Point Emission Factor from Equation 1, AP42 13.2.4:

Mean Wind Speed (U) = 10 mph

Moisture Content (M) = 2.5%

Particle Size Multiplier (k) =

PM10 = 0.35

TSP = 0.74

PM = TSP/0.8 = 0.925

$$EF\left(\frac{lb}{ton}\right) = \left(k \times 0.0032\right) \frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}}$$

# **Emission Factors - Propane and Natural Gas Combustion Bear River Zeolite Company**

	Emission Factors N. G./Propane		Emissions u Dryers (2)	
Criteria Pollutants	(lb/MMBtu)	(lb/hr)	(T/yr)	
PM-10	4.37E-03	6.555E-03	0.029	
SO2	2.19E-04	3.285E-04	1.44E-03	
NO2	1.53E-01	2.295E-01	1.005	
CO	2.08E-02	3.120E-02	0.137	
VOC	5.46E-03	8.190E-03	0.036	
Lead	4.90E-07	7.350E-07	3.22E-06	
Non-Criteria Pollutants with			v	
PM	6.53E-03	9.80E-03	0.043	Emission
Beryllium	1,18E-08	1.77E-08	7.75E-08	Screening
Mercury	2.55E-07	3.83E-07	1.68E-06	Level (EL)
Non-Carcinogenic TAPs			1.00= 00	(lb/hr)
Barium	4.31E-06	6.47E-06	2.83E-05	0.033
Chromium	1.37E-06	2.06E-06	9.00E-06	0.0333
Cobalt	8.24E-08	1.24E-07	5.41E-07	0.007
Copper	8.33E-07	1.25E-06	5.47E-06	0.013
Dichlorobenzene	1.18E-06	1.77E-06	7.75E-06	20
Fluorene	2.75E-09	4.13E-09	1.81E-08	0.133
Hexane	1.76E-03	2.64E-03	1.16E-02	12
Manganese	3.73E-07	5.60E-07	2.45E-06	0,067
Mercury	2.55E-07	3.83E-07	1.68E-06	0.007
Molybdenum	1.08E-06	1.62E-06	7.10E-06	0.003
Napthalene	5.98E-07	8.97E-07	3.93E-06	3.33
Pentane	2.55E-03	3.83E-03	1.68E-02	118
Selenium	2.35E-03 2.35E-08	3.53E-08	1.54E-07	0.013
Toluene	3.33E-06	5.00E-06	2.19E-05	25
Vanadium	2.25E-06	3.38E-06	1.48E-05	0.025
Zinc	2.84E-05	4.26E-05	1.87E-04	0.667
the state of the s	2.84E-03	4.20E-03	1.87E-04	0.007
Carcinogenic TAPs	7.055.05	2.2.5.0	T	* <b>* * * * * * * * * *</b>
Arsenic	1.97E-07	2.96E-07	1.29E-06	1.50E-06
Benzene	2.06E-06	3.09E-06	1.35E-05	8.00E-04
Benzo(a)pyrene	1.18E-08	1.77E-08	7.75E-08	2.00E-06
Beryllium	1.18E-09	1.77E-09	7.75E-09	2.80E-05
Cadmium	1.08E-06	1.62E-06	7.10E-06	3.70E-06
Formaldehyde	7.35E-05	1.10E-04	4.83E-04	5.10E-04
3-Methylchloranthrene	1.76E-09	2.64E-09	1.16E-08	2.50E-06
Nickel	2.06E-06	3.09E-06	1.35E-05	2.70E-05
PAH's	1.76E-09	2.64E-09	1.16E-08	2.00E-06
Benzo(a)anthracene	<1.76E-09	telegosamassiniskos en stem menen pasta en statet en la se se combre este se se se		N/A
Benzo(b)fluoranthene	<1.76E-09			N/A
Benzo(k)fluoranthene	<1.76E-09			N/A
Chrysene	<1.76E-09			N/A -
Dibenzo(a,h)anthracene	<1.76E-09			N/A
Indeno(1,2,3-cd)pyrene	<1.76E-09	annien annie de state de la company de la		N/A
Benzo(a)pyrene	<1.76E-09		·	N/A

#### Stack Emission Estimates Bear River Zeolite Preston, Idaho

#### Baghouse Emissions

Baghouse		Exhaust Emiss Flow PM			dons PM10		
ĪD.	Description	(dscf/m)	(lb/br)	(tons/yr)	(lb/hr)	(tons/yr)	
BGH1	Primary Crushing Circuit	4,997.3	0.942	4.128	0.801	3.508	
BGH2	0.75 MMBtu Dryers	2,345.7	0.442	1.937	0.376	1.647	
BGH3	Philadelphia Hammer Mill	3,186.3	0.601	2.632	0.511	2.237	
BGH4	Jeffries Hammer Mill	1,983.3	0.374	1.638	0.318	1.392	
BGH5	Fine Products	2,829.7	0.534	2.337	0.454	1.987	
BGH6	Alston Hammer Mill	3,294.0	0.621	2.721	0.528	2.313	

#### Zeolite Dryer Emissions

Criteria Pollutants	Emission Factors (lb/MMBtu)			
PM	0.022 gr/dscf	0.442	(T/yr) 1.937	
PM-10	85% of PM	0.376	1.647	
SO2	2.19E-04	3.285E-04	1.44E-03	
NO2	1.53E-01	2.295E-01	1.005	
CO	2.08E-02	3.120E-02	0.137	
VOC	5.46E-03	8.190E-03	0.036	
Lead	4.90E-07	7.350E-07	3.22E-06	

#### Process Emission Estimates Bear River Zeolite Preston, Idaho

		Bui	lding 1 Primary	Crushing and	Screening				
Source	Producti Maximum	Production Rate Maximum   Annual		Emission Factors PM PM10		PM		PM10	
	(lb/hr)	tons/yr	(lb/ton) (lb/ton)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)		
Cone Crusher	100	175,200	7.00E-04	2.67E-04	7.00E-02	6.13E-02	2.67E-02	2.34E-02	
Primary Screen	100	175,200	3.94E-02	1.50E-02	3.94	3.45	1.50	1.31	
3 Transfers	100	175,200	3.70E-03	1.40E-03	1.11	0.97	0.42	0.37	
Total Uncontroled	1		·		5.120	4.485	1.947	1.705	
Total 70% Control	1				1.536	1.346	0.584	0.512	

		ASSUUS AS	Building 2 Coa	rse Products Bu	tilding			
Source	Production Rate Maximum Annual (lb/hr) tons/yr		Emission Factors PM PM10 (lb/ton) (lb/ton)		PM (lb/hr) (tons/yr)		PM10 (lb/hr)   (tons/yr)	
Source	(tem)	toniscyi	310/1001)	(ibitoii)	(113,111)	(commy)	(100.00)	7800277
Philadelphia Hammer Mill	10	87,600	6.30E-03	2.40E-03	6.30E-02	0.276	2.40E-02	0.105
4 × 8 Screen Plant	10	87,600	3.94E-02	1.50E-02	0.394	1.726	0.150	0.657
4' Sweeco Screen	10	87,600	3.94E-02	1.50E-02	0.394	1.726	0.150	0.657
4' Sweeco Screen	10	87,600	3.94E-02	1.50E-02	0.394	1.726	0.150	0.657
6 Transfers	10	87,600	3.70E-03	1.40E-03	0.222	0.972	0.084	0.368
Total Uncontroled			<del></del>		1.467	6.425	0.558	2.444
Total 70% Control					0.440	1.928	0.167	0.733

Building 3 Jeffries Hammer Mill								
	Production Rate Maximum Annual		Emission Factors PM PM10 (lb/ton) (lb/ton)		PM (lb/hr)   (tons/yr)		PM16 (lb/hr)   (tons/yr)	
Source Jeffries Hammer Mill	(lb/hr) 50	tons/yr 175,200	(lb/ton) 6.30E-03	2.40E-03	0.315	0.552	0.120	0.210
5 × 7 Screen Plant	50	175,200	3.94E-02	1.50E-02	1,970	3.451	0.750	1.314
5 × 7 Screen Plant	50	175,200	3.94E-02	1.50E-02	1.970	3.451	0.750	1.314
5 Transfers	50	175,200	3.70E-03	1.40E-03	0.925	1.621	0.350	0.613
Total Uncontroled					5.180	9.075	1.970	3.451
Total 70% Control					1.554	2.723	0.591	1.035

Building 4 Fine Products Building								
	Production Rate Maximum Annual		Emission Factors PM PM10		РМ		РМ10	
Source	(lb/hr)	tons/yr	(lb/ton)	(lb/ton)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
3.5 × 10.5 Screen Plant	10	87,600	1.86E-01	7.10E-02	1.860	8,147	0.710	3.110
3.5 × 10.5 Screen Plant	10	87,600	1.86E-01	7.10E-02	1.860	8.147	0.710	3.110
18" Sweeco Screen	10	87,600	1.86E-01	7.10E-02	1.860	8.147	0.710	3,110
4' Sweeco Screen	10	87,600	1.86E-01	7.10E-02	1.860	8.147	0.710	3.110
30" Sweeco Screen	10	87,600	1.86E-01	7.10E-02	1.860	8.147	0.710	3.110
5 Transfers	10	87,600	3.70E-03	1.40E-03	0.185	0.810	0.070	0.307
Total Uncontroled					9,485	41.544	3.620	15.856
Total 70% Control					2.846	12.463	1.086	4.757

#### Unenclosed Process Emissions

	Product Maximum	ion Rate Annual	Emissior PM	r Factors PM10	p	M	PA	<b>4</b> 10
Source	(lb/hr)	tons/yr	(lb/ton)	(lb/ton)	(lb/hr)	(tons/yr)	(lb/br)	(tons/yr)
Jaw Crusher	300	175,200	7.00E-04	2.67E-04	0.210	0.061	0.080	0.023
Outside Transfers (18)	20	175,200	5.33E-03	2.02E-03	1.919	8.404	0.727	3.185

#### **Drilling and Blasting Emissions**

Emission Source	TSP (lb/ton mined)	PM (lb/ton mined)	PM10 (lb/ton mined)	PM (lb/hr)	(tons/yr)	PM-10 (lb/hr)	(tons/yr)
Drilling	0.0080	0.0100	0.0038	0,2000	0.8760	0.0762	0.3337
Blasting	0.1600	0.2000	0.0762	4.0000	17.5200	1.5238	6,6743

#### Fugitive Emissions From Vehicle Traffic:

	-		4			Emissio PM	n Factor PM <sub>18</sub>	P	PERSONAL PROPERTY AND	Emissions D	VI <sub>18</sub>
Vehicle	S	S	W	w	р	(Ib/VMT)	(Ib/VMT)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Rock Truck	9.6	5	27.5	6	90	3,423	1.232	5.135	22.490	1.848	8.096
Product Truck	10	5	22.5	10	90	4.000	1,440	5.867	25.697	2.112	9.251
							TOTAL	11.002	48.187	3.961	17.347

Round Trip Distance (miles) Tons Hauled per Round Trip Potential Tons Hauled per hour Actual Tons Hauled per hour Actual Tons Hauled per hour	Mine Road 1.5 20 20 1.00 1.1416 0.0571	Access Road 1.1 15 20 1.33 1.1416 0.0761	$E=\kappa(5.9)\frac{1}{(12)}\left(\frac{\pi}{35}\right)\left(\frac{\pi}{3}\right)^{1/2}\left(\frac{\pi}{3}\right)^{1/2}\left(\frac{\pi}{35}\right)^{1/2}=ih/VMT$ $E=\text{emission factor in pounds per Vehicle Mile Traveled.}$ $k=\text{particle size-multiplier}=1.0 \text{ for PM and 0.36 for PM to}$ $s=\text{sit content \%}$ $S=\text{mean vehicle speed (mph)}$ $W=\text{mean vehicle weight (fons)}$ $w=\text{mean number of wheels}$ $p=number of days with at least 0.01 inches of precipitation per year$
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## APPENDIX B

**State Application Forms** 

Bear River Zeolite Company, Inc.



#### DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit Hotline – 877-5PERMIT

# **PERMIT TO CONSTRUCT APPLICATION**

Revision 1 01/11/07

Please see instructions on page 2 before filling out the form.

(	COMPAN	Y NAME, FACILITY NAME, AND FACILITY ID NUMBE	R
1. Compan	y Name	Bear River Zeolite Company	
2. Facility	Name	3. Facility ID No. 041-	00010
Brief Pr One senter	oject Descrip	otion - Install Roller Mill and Modify Dryer	
		PERMIT APPLICATION TYPE	
⊠ Mod	lify Existing S	New Source at Existing Facility Unpermitted Existing So Source: Permit No.: P-040310 Date Issued: September 20, 2005 orcement Action: Case No.:	urce
	or PTC	Major PTC	
		FORMS INCLUDED	
Included	N/A	Forms	DEQ Verify
$\boxtimes$		Form GI – Facility Information	
$\boxtimes$		Form EU0 – Emissions Units General	
П	$\boxtimes$	Form EU1 - Industrial Engine Information Please Specify number of forms attached:	
$\boxtimes$		Form EU2 - Nonmetallic Mineral Processing Plants Please Specify number of forms attached:	
• П		Form EU3 - Spray Paint Booth Information Please Specify number of forms attached:	
	$\boxtimes$	Form EU4 - Cooling Tower Information Please Specify number of forms attached:	
П	$\boxtimes$	Form EU5 – Boiler Information Please Specify number of forms attached:	
	$\boxtimes$	Form HMAP – Hot Mix Asphalt Plant Please Specify number of forms attached:	
П		Form CBP - Concrete Batch Plant Please Specify number of forms attached:	
$\boxtimes$		Form BCE - Baghouses Control Equipment	
П,	$\boxtimes$	Form SCE - Scrubbers Control Equipment	
$\boxtimes$		Forms El-CP1 - El-CP4 - Emissions Inventory- criteria pollutants (Excel workbook, all 4 worksheets)	
$\boxtimes$		PP – Plot Plan	
		Forms MI1 – MI4 – Modeling (Excel workbook, all 4 worksheets)	
	$\boxtimes$	Form FRA – Federal Regulation Applicability	

DEQ USE ONLY  Date Received
Project Number
Payment / Fees Included? Yes No No
Check Number

General Information Form GI



DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Soise, ID 83706 For assistance, call the. Air Permit Hotline — \$77-SPERMIT

Usac

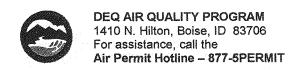
#### PERMIT TO CONSTRUCT APPLICATION

Revision 1 01/11/07

Please see instructions on page 2 before filling out the form.

All information is required. If information is missing, the application will not be processed.

		IDENTIFICATION
9.	Company Name	Bear River Zeolite Company
2.	Facility Name (if different thes #1)	
J.	Facility t.D. No.	041-00010
4.	Brief Project Description:	Install Roller Mill and Modify Dryer Capacity
		FACILITY INFORMATION
8.	Ownedloperated by: (4 trappicable)	Federal government County government  State government City government
6.	Primary Facility Permit Control Person/Title	John C. Lawrence / President
7.	Telephone Number and Email Address	(406) 827-3523
ø.	Alternate Facility Contact Person/Tide	
9.	Telophone Number and Email Address	
10.	Address to which pornit should be sent	PO Box 643
11.	: Clty/State/Zap · · ·	Thompson Falls MT, 59873
12	Equipment Location Address (If different than #8)	UTM Coordinates: 436 km E, 4,666 km N Zone 11
13.	Chy/\$2006/ZIp	Approx. 6 miles Northwest of Preston, Idaho
74.	is the Euglpment Portable?	☐ Yas ⊠ No
75.	SIC Code(s) and NAIRC Code	Printary SIC: 3299 Secondary SIC (Weny): 1499 NAICS: 327999
18.	Brief Guslasse Description and Principal Product	Mines, crushes and screens Zeolite.
17.	ideatify any adjacent or configurate facility, that this company owns and/or operation	
		PERMIT APPLICATION TYPE
16.	Specify Reason for Application	□ New Facility     □ New Source at Bristing Facility     □ Modify Existing Source; Permit No. P-040310 Date issued: Sept. 20, 2005     □ Unpermitted Edwing Source:     □ Required by Enforcement Action: Case No.;
		CERTIFICATION
124	ACCUMBANCE WITH IDAPA SECTION, 123 (I	RULES FOR THE CONTROL OF AM PTELLITION IN LIGHE), I GERTHY BASED ON INFORMATION AND BELIEF FORMED , THE STATE MONTO AND INFORMATION IN THE DOCUMENT AND TRUE, ACCURATE, AND COMPLETE.
19.	Responsible Official's Name/Title	John A. Layrenge / President
20.	RESPONSIBLE OFFICIAL SIGNAT	SSS-to-manufacture and the state of the stat
17.	Check here to indicate you wou	d like to review a draft permit prior to final issuance.
***************************************	The second secon	

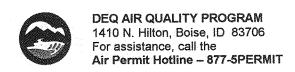


# PERMIT TO CONSTRUCT APPLICATION

Revision 1 01/11/07

Please see instructions on page 2 before filling out the form.

	[D]	ENTIFICATI	NC		
Company Name:	Facility Na	me:		Facility ID N	lo:
Bear River Zeolite Company				041-00010	
Brief Project Description:	Install Rolle	er Mill and M	odify Dryer Ca	pacity	Charachertas e Baldo Calenda e de Cale
EMISSION	S UNIT (PROCE	SS) IDENTIF	ICATION & E	DESCRIPTION	
Emissions Unit (EU) Name: Rota	ry Drum Dryer 1				
2. EU ID Number: DRY	1				
	lew Source ☐ U lodification to a Perm	npermitted Exis itted Source – F	ling Source Previous Permit#	:P-040310 Date Issu	ued: Sept. 20, 2005
4. Manufacturer: Sho	Built				
5. Model:		4			
6. Maximum Capacity: 0.75	MMBtu				
7. Date of Construction:					
8. Date of Modification (if any)					
9. Is this a Controlled Emission Unit?	lo ⊠ Yes If Yes, C	Complete the fol	lowing section. If	No, go to line 18.	
	EMISSIONS	CONTROL	EQUIPMENT		
10. Control Equipment Name and ID:	Baghouse #2 B	GH2			
11. Date of Installation:	12	2. Date of Modifi	cation (if any):		
13. Manufacturer and Model Number:					
14. ID(s) of Emission Unit Controlled:					
15. Is operating schedule different than emission units(s) involved?:	☐ Yes ⊠	No			
16. Does the manufacturer guarantee the control efficiency of the control equipment?	□Yes □No (	lf yes, attach an	d label manufactı	ırer guarantee)	
SINGIFICATION OF THE CONTROL CHARLEST CONTROL		<u> </u>	Pollutant Control	iled	_
PM	PM10	SO <sub>2</sub>	NOx	voc	со
Control Efficiency 99.9	99.5			a di a	
17. If manufacturer's data is not available, attach to support the above mentioned control efficiency		aper to provide	he control equipn	nent design specification	is and performance data
EMISSION UNIT	OPERATING SO	CHEDULE (I	nours/day, ho	ours/year, or other	;)
18. Actual Operation					
19. Maximum Operation 8760 h	<b>Тут</b>				
	REQ	UESTED LII	ЛITS		
20. Are you requesting any permit limits?	□ Yes	(If Yes, check	all that apply belo	iw)	
Operation Hour Limit(s):					
Production Limit(s):					
☐ Material Usage Limit(s):		unante di esta de la companya de la			
☐ Limits Based on Stack Testing	Please attach all relev	ant stack testing	summary report	S	
Other:			and the second s	AND THE PARTY OF T	
21. Rationale for Requesting the Limit(s):					

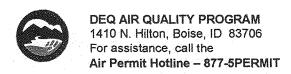


# PERMIT TO CONSTRUCT APPLICATION

Revision 1 01/11/07

Please see instructions on page 2 before filling out the form.

Dentification   Pacific   Pacific	Facility Name:   Facility ID No: O41-00010	Trease see mistractions on page	, _ ,,,,,,,			TION .		
Balan	Bear River Zeolite Company    Brief Project Description:   Install Roller Mill and Modify Dryer Capacity	Compony Name:		on the second consideration and the second construction of the second const			Facility ID I	No.
Install Roller Mill and Modify Dryer Capacity	Install Roller Mill and Modify Dryer Capacity	and all the control of the control o		racinty	raille.			
Emissions Unit (EU) Name:	EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION  1. Emissions Unit (EU) Name: Rotary Drum Dryer 2 2. EU ID Number: DRY2 3. EU Type:			Indian P	Collor Maill and	Modify Dayor C		
1.	1. Emissions Unit (EU) Name:	<ul> <li>It is the profession of the process of the process of the profession of the plant o</li></ul>	0010110	SALES CONTRACTOR OF THE PROPERTY OF THE PROPER	TO THE REPORT OF THE PARTY OF T			
2. EUID Number:	2. EU ID Number: DRY2 3. EU Type:				oess/IDEN	MECATION &		
New Source	3. EU Type:			Jrum Dryer 2				
Material Usage Limit(s):	Modification to a Permitted Source — Previous Permit #: Date Issued:	2. EU ID Number:						
5. Model:	5. Model: 6. Maximum Capacity: 7. Date of Construction: 8. Date of Modification (if any) 9. Is this a Controlled Emission Unit? 10. Control Equipment Name and ID: 11. Date of Installation: 12. Date of Modification (if any): 13. Manufacturer and Model Number: 14. ID(a) of Emission Unit Controlled: 15. Is operating schedule different than emission units(s) involved?: 16. Does the manufacturer guarantee the control efficiency of the control equipment?  PM PMI0 SO <sub>2</sub> NOx VOC CO  Control Efficiency 9.9.9. 99.5.  17. If manufacturer data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.  EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)  18. Actual Operation 19. Maximum Operation  8780 hr/yr  REQUESTED LIMITS  20. Are you requesting any permit limits?   Operation Hour Limit(s):   Operation Hour Limit(s):   Operation Hour Limit(s):   Deate of Modification (if any):   Please attach all relevant stack testing summary reports	3. EU Type:	☐ New ☑ Mod	Source Lification to a P	_] Unpermitted E ermitted Source	Existing Source - Previous Permit	#: Date Issued	<u>i:</u>
6. Maximum Capacity:	6. Maximum Capacity: 0.75 MMBtu  7. Date of Construction: 8. Date of Modification (if any) 9. Is this a Controlled Emission Unit? □ No ☑ Yes If Yes, Complete the following section. If No, go to line 18.  EMISSIONS CONTROL EQUIPMENT  10. Control Equipment Name and ID: Baghouse #2 BGH2  11. Date of Installation: □ 12. Date of Modification (if any): □ 12. Date of Modification (if any): □ 13. Manufacturer and Model Number: □ 14. ID(s) of Emission Unit Controlled: □ 15. Is operating schedule different than emission units(s) involved?: □ 15. Is operating schedule different than emission units(s) involved?: □ 16. Does the manufacturer guarantee the control efficiency of the control equipment? □ Yes □ No (If yes, attach and label manufacturer guarantee) □ Yes □ No (If yes, attach and label manufacturer guarantee)  17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.  EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)  18. Actual Operation □ 8760 hr/yr  REQUESTED LIMITS  20. Are you requesting any permit limits? □ Yes □ No (If Yes, check all that apply below) □ Operation Hour Limit(s): □ Production Limit(s): □ Production Limit(s): □ Production Limit(s): □ Imits Based on Stack Testing □ Please attach all relevant stack testing summary reports	4. Manufacturer:	Shop B	uilt				
7. Date of Construction: 8. Date of Modification (if any) 9. Is this a Controlled Emission Unit?	7. Date of Construction:  8. Date of Modification (if any)  9. Is this a Controlled Emission Unit?	5. Model:		· · · · · · · · · · · · · · · · · · ·			·	
8.	8. Date of Modification (if any) 9. Is this a Controlled Emission Unit?	6. Maximum Capacity:	0.75 MM	//Btu				
9. Is this a Controlled Emission Unit?	9. Is this a Controlled Emission Unit?	7. Date of Construction:						
10. Control Equipment Name and ID:   Baghouse #2 BGH2   SUBDITION   SUBDITIO	### EMISSIONS CONTROL EQUIPMENT  10. Control Equipment Name and ID: Baghouse #2 BGH2  11. Date of Installation:   12. Date of Modification (if any):    13. Manufacturer and Model Number:	8. Date of Modification (if any)	La				and the second s	
10. Control Equipment Name and ID:	10. Control Equipment Name and ID:    Baghouse #2 BGH2	9. Is this a Controlled Emission Unit?	□ No					
11. Date of Installation:  12. Date of Modification (if any):  13. Manufacturer and Model Number:  14. ID(s) of Emission Unit Controlled:  15. Is operating schedule different than emission units(s):  16. Does the manufacturer guarantee the control equipment?    Yes   No	11. Date of Installation:  12. Date of Modification (if any):  13. Manufacturer and Model Number:  14. ID(s) of Emission Unit Controlled:  15. Is operating schedule different than emission units(s) involved?:  16. Does the manufacturer guarantee the control efficiency of the control equipment?  PM PM10 SO <sub>2</sub> NOx VOC CO  Control Efficiency 99.9 99.5  17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.  EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)  18. Actual Operation  19. Maximum Operation  8760 hr/yr  REQUESTED LIMITS  20. Are you requesting any permit limits?			EMISSION	NS CONTRO	L EQUIPMENT		
13. Manufacturer and Model Number:  14. ID(s) of Emission Unit Controlled:  15. Is operating schedule different than emission units(s) involved?:  16. Does the manufacturer guarantee the control equipment?    Yes	13. Manufacturer and Model Number:  14. ID(s) of Emission Unit Controlled:  15. Is operating schedule different than emission units(s) involved?:  16. Does the manufacturer guarantee the control efficiency of the control equipment?  PM PM10 SO2 NOX VOC CO  Control Efficiency 99.9 99.5  17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.  EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)  18. Actual Operation  19. Maximum Operation  8760 hr/yr  REQUESTED LIMITS  20. Are you requesting any permit limits?	10. Control Equipment Name and ID:		Baghouse #2	<del></del>			
14. ID(s) of Emission Unit Controlled:  15. Is operating schedule different than emission units(s) involved?:  16. Does the manufacturer guarantee the control equipment?    Yes	14. ID(s) of Emission Unit Controlled:  15. Is operating schedule different than emission units(s) involved?:  16. Does the manufacturer guarantee the control efficiency of the control equipment?  PM PM10 SO2 NOx VOC CO  Control Efficiency 99.9 99.5 PM10 SO2 NOx VOC CO  17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.  EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)  18. Actual Operation 8760 hr/yr  REQUESTED LIMITS  20. Are you requesting any permit limits? Yes No (if Yes, check all that apply below)  Production Limit(s):  Production Limit(s):  Material Usage Limit(s):  Limits Based on Stack Testing Please attach all relevant stack testing summary reports	11. Date of Installation:			12. Date of M	odification (if any):		
15. Is operating schedule different than emission units(s) involved?:  16. Does the manufacturer guarantee the control equipment?    Yes   No     No	15. Is operating schedule different than emission units(s) involved?:    Yes   No     No   (If yes, attach and label manufacturer guarantee)	13. Manufacturer and Model Number:						
units(s) involved?:  16. Does the manufacturer guarantee the control efficiency of the control equipment?    Yes	Units(s) involved?:  16. Does the manufacturer guarantee the control efficiency of the control equipment?    PM						Control of the second s	
16. Does the manufacturer guarantee the control equipment?    Yes   No   (If yes, attach and label manufacturer guarantee)	16. Does the manufacturer guarantee the control efficiency of the control equipment?		emission	☐ Yes	⊠ No	e. Distribution and an experience		
PM	Pollutant Controlled  PM PM10 SO2 NOX VOC CO  Control Efficiency 99.9 99.5 99.5  17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.  EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)  18. Actual Operation  19. Maximum Operation  8760 hr/yr  REQUESTED LIMITS  20. Are you requesting any permit limits?	16. Does the manufacturer guarantee th	e control	□Yes □N	o (If yes, attacl	n and label manufac	turer guarantee)	
Control Efficiency 99.9 99.5 99.5  17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.  EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)  18. Actual Operation 8760 hr/yr  REQUESTED LIMITS  20. Are you requesting any permit limits?	Control Efficiency 99.9 99.5  17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.  EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)  18. Actual Operation  19. Maximum Operation  REQUESTED LIMITS  20. Are you requesting any permit limits?	eniciency of the control equipment?		I		Pollutant Contr	olled	in the state of th
17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.    EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)   18.   Actual Operation   8760 hr/yr	17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.  EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)  18. Actual Operation  19. Maximum Operation  REQUESTED LIMITS  20. Are you requesting any permit limits?		PM	PM10	SO <sub>2</sub>	NOx	VOC	co
to support the above mentioned control efficiency.  EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)  18. Actual Operation  19. Maximum Operation  8760 hr/yr  REQUESTED LIMITS  20. Are you requesting any permit limits?	to support the above mentioned control efficiency.  EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)  18. Actual Operation  19. Maximum Operation  REQUESTED LIMITS  20. Are you requesting any permit limits?	Control Efficiency	99.9	99.5				
to support the above mentioned control efficiency.  EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)  18. Actual Operation  19. Maximum Operation  8760 hr/yr  REQUESTED LIMITS  20. Are you requesting any permit limits?	to support the above mentioned control efficiency.  EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)  18. Actual Operation  19. Maximum Operation  REQUESTED LIMITS  20. Are you requesting any permit limits?	17. If manufacturer's data is not available	e, attach a s	parate sheet	of paper to prov	ide the control equip	oment design specification	ons and performance data
18. Actual Operation  19. Maximum Operation  8760 hr/yr  REQUESTED LIMITS  20. Are you requesting any permit limits?  ☐ Yes  ☐ No (If Yes, check all that apply below)  ☐ Operation Hour Limit(s):  ☐ Production Limit(s):  ☐ Material Usage Limit(s):  ☐ Material Usage Limit(s):	18. Actual Operation 8760 hr/yr  REQUESTED LIMITS  20. Are you requesting any permit limits?	In the second of the second			Ante d'article			ouelle Carrosse e de estable e d
19. Maximum Operation 8760 hr/yr  REQUESTED LIMITS  20. Are you requesting any permit limits? ☐ Yes ☐ No (If Yes, check all that apply below)  ☐ Operation Hour Limit(s): ☐ Production Limit(s): ☐ Material Usage Limit(s): ☐ Material Usage Limit(s): ☐ Comparison of the comparison of	19. Maximum Operation  REQUESTED LIMITS  20. Are you requesting any permit limits? ☐ Yes ☐ No (If Yes, check all that apply below)  ☐ Operation Hour Limit(s): ☐ Production Limit(s): ☐ Material Usage Limit(s): ☐ Limits Based on Stack Testing Please attach all relevant stack testing summary reports ☐ Other:	EMISSIO	O TINU N	PERATING	SCHEDUL	E (hours/day, h	ours/year, or othe	er)
REQUESTED LIMITS  20. Are you requesting any permit limits?	REQUESTED LIMITS  20. Are you requesting any permit limits?	18. Actual Operation						
20. Are you requesting any permit limits? ☐ Yes ☐ No (If Yes, check all that apply below)  ☐ Operation Hour Limit(s): ☐ Production Limit(s): ☐ Material Usage Limit(s):	20. Are you requesting any permit limits? ☐ Yes ☐ No (If Yes, check all that apply below)  ☐ Operation Hour Limit(s): ☐ Production Limit(s): ☐ Material Usage Limit(s): ☐ Limits Based on Stack Testing Please attach all relevant stack testing summary reports ☐ Other:	19. Maximum Operation	8760 hr/yr		Albania da Kalan			
☐ Operation Hour Limit(s):       ☐ Production Limit(s):       ☐ Material Usage Limit(s):	□ Operation Hour Limit(s):       □ Production Limit(s):       □ Material Usage Limit(s):       □ Limits Based on Stack Testing     Please attach all relevant stack testing summary reports       □ Other:			R	EQUESTED	LIMITS		
☐ Operation Hour Limit(s):       ☐ Production Limit(s):       ☐ Material Usage Limit(s):	□ Operation Hour Limit(s):       □ Production Limit(s):       □ Material Usage Limit(s):       □ Limits Based on Stack Testing     Please attach all relevant stack testing summary reports       □ Other:	20. Are you requesting any permit limi	ts?	Yes ⊠	No (If Yes, ch	eck all that apply be	low)	
☐ Production Limit(s): ☐ Material Usage Limit(s):	☐ Production Limit(s): ☐ Material Usage Limit(s): ☐ Limits Based on Stack Testing ☐ Please attach all relevant stack testing summary reports ☐ Other:	Operation Hour Limit(s):					<u>and the state of </u>	
Material Usage Limit(s):	☐ Material Usage Limit(s):       ☐ Limits Based on Stack Testing     Please attach all relevant stack testing summary reports       ☐ Other:			· · · · · · · · · · · · · · · · · · ·			<u></u>	A Company of the Comp
	Limits Based on Stack Testing Please attach all relevant stack testing summary reports  Other:							Anna and a second s
	Other:		Plea	ase attach all r	elevant stack te	sting summary repo	rts	<u> </u>
☐ Other:								and the second s
	(2) Rationale for Requesting the Limits).	21. Rationale for Requesting the Limit	(s):			<del></del>		



# PERMIT TO CONSTRUCT APPLICATION

Revision 1 01/11/07

Please see instructions on page 2 before filling out the form.

This form requests information about equipment at a nonmetallic mineral processing plant, as defined in 40 CFR 60.671, that generates fugitive emissions only.

In addition, forms EU0 and appropriate control equipment forms should be used for each stack emission point from the same plant.

		IDENTIF	CATION		
Company Name:		Facility	Name:	orani Magdilla o dila	Facility ID No:
Bear River Zeolite Comp	pany				041-00010
Brief Project Description:		Install	Roller Mill and Modify Dr	yer Capacity	
Ē	QUIPMENT (EMISSI	ON UNIT) DES	CRIPTION AND SPECIF	CATIONS	
1. Equipment Description	Construction     Date	3. Serial Number	4. Equipment ID Number (company's)	5. Rated Capacity	6. Emission Control Type
Primary Jaw Crusher	1973		JCR	300 tph	None
Cone Crusher	1958		CCR	100 tph	Enclosed /Baghouse
Philadelphia Hammer Mill			PHM	10 tph	Enclosed /Baghouse
Jeffries Hammer Mill			JHM	50 tph	Enclosed /Baghouse
Allis Chalmers Tube Mill			ACTM	10 tph	Enclosed /Baghouse
Alston Power Roller Mill	1979	<del> </del>	APRM	15 tph	Baghouse
Kohlberg Screen Plant		and the second s	SC1	5' × 12'	Enclosed /Baghouse
Midwest Screen Plant (W)			SC2	5' × 7'	Enclosed /Baghouse
Midwest Screen Plant (E)			SC3	5' × 7'	Enclosed /Baghouse
Midwest Screen Plant			SC4	4' × 8'	Enclosed /Baghouse
Sweeco Screen			SC5	4' diam.	Enclosed /Baghouse
Sweeco Screen			SC6	4' diam.	Enclosed /Baghouse
Derrick Screen		2000	SC7	3.5' × 10.5'	Enclosed /Baghouse
Derrick Screen			SC8	3.5' × 10.5'	Enclosed /Baghouse
Sweeco Screen			SC9	18" diam.	Enclosed /Baghouse
Sweeco Screen			SC10	4' diam.	Enclosed /Baghouse
Sweeco Screen			SC12	30" diam.	Enclosed /Baghouse
		***************************************		•	
7. Actual Operation	RATING SCHEDULE 24 hr/day 24 hr/day	E (hours/day, o	r hours/week, or month	ns/year, or othe	er)
o. Maximum Operation	27 H/Vay				



DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the ' Air Permit Hotline – 877-5PERMIT

# PERMIT TO CONSTRUCT APPLICATION

Revision 1 01/11/07

Please see instructions on page 2 before filling out the form.

			IDENTIFICATION			
Company Name: Bear	Bear River Zeolite Company	ompany	Facility Name:	Faci	Facility ID #: 0	041-00010
Brief Project Description: Install Roller Mill and Modify Dryer Capacity	n: Install Roller	Mill and Modif	fy Dryer Capacity			The state of the s
IDENT	IDENTIFICATION		BAGHOUSE		BAGS	-
-	2.	3. 4.	5. 6. 7.	ထ	9	, , ,
Emission Unit	EU C ID No. I	CE ID Stack No. ID No.	Baghouse Manufacturer Baghouse Type	Туре	Size N (Dia x Ht) E	No. of Air to Bags Cloth
Baghouse #1	BLDG1	BGH1				
Baghouse #2	DRY1,2	BGH2				
Baghouse #3	BLDG2	вонз	Micro Pulse			
Baghouse #4	BLDG3	BGH4				
Baghouse #5	BLDG4	BGH5				
Baghouse #6	RM1	BGH6			-	
					-	

Total	(insert more rows as needed)	name of the emissions unit21	name of the emissions unit20	name of the emissions unit19	name of the emissions unit18	name of the emissions unit17	name of the emissions unit16	name of the emissions unit15	name of the emissions unit14	name of the emissions unit13	name of the emissions unit12	name of the emissions unit11	name of the emissions unit10	name of the emissions unit9	name of the emissions unit8	name of the emissions unit7	Baghouse #6	Baghouse #5	Baghouse #4	Baghouse #3	Baghouse #2 (Dryers)	Baghouse #1		Emissions units			Brief Project Description:	Facility ID No.:	Facility Name:	Company Name:	
CONTRACTOR														renews that			BGH6	BGH5	BGH4	BGH3	BGH2	BGH1		Stack ID	7 2.	MINS	-	+			DEQ AIR QUAL 1410 N. Hilton Boise, ID 83706 For assistance:
2.99																	0.528	0.454	0.318	0.511	0.376	0.801		יו/פו	PM <sub>10</sub>	SUMMARY OF FACILITY WIDE EMISSION RATES FOR CRITERIA	Install Koller Mill and Modify Dryer			Bear River Zeolite Company	DEQ AIR QUALITY PROGRAM 1410 N. Hitton Boise, ID 83706 For assistance: (208) 373-0502
13.08																	2.313	1.987	1.392	2.237	1.647	3.508		TWT	110	AOILITY WIL	odity Diyer	i i		npany	outoreconstitues and the second
0.00																					3.29E-04			lb/hr	SO <sub>2</sub>	)E EMISSIOI	edekin pilonova kannonova posenova				
0.00														- Lander							1.44E-03		Point Source(s)	TWT	2	V RATIES FO					
0.23																					0.23		ce(s)	Phr	NOX	)R GRITERI					
1,01																-					1,007			TW							
0.03																					0.0312			b/hr	S	NTS - POIN				0.000	
0.14																		-			0.137			TW		POLLUTANTS - POINT SOURCES					TO III
				-												A CONTRACTOR OF THE PROPERTY O								b/hr	Voc			advancement of the second of t			MIT TO C
																The state of the s								Tyr	-				-		ONSTRU
0.00																					7.35E-07			ib/hr	Lead			-	- Annie Constitution of the Constitution of th	Typi da da a	PERMIT TO CONSTRUCT APPLICATION
0.00															-			And a section of the			3.22E-06			Tyr	**						CATION



DEQ AIR QUALITY PROGRAM 1410 N. Hilton

	1410 N. Hilton Boise, ID 83706 For assistance: (208) 373-0502	208) 373-0502							771	řemit to	CONSTR	PERMIT TO CONSTRUCT APPLICATION	.ICATION
Company Name:	Bear River Zeolite Company	eolite Compa	Yare							Note the second	WANDERSON STREET, SAN STREET,	NAMES OF THE PROPERTY OF THE P	
Facility Name:									-		STATE OF THE PROPERTY OF THE P		
Facility ID No.:	041-00010												
Brief Project Description:	Install Roller	Install Roller Mill and Modify Dryer	fy Diyer										
	SUMM	SUMMARY OF FACILITY WIDE EMISSION RATES FOR CRITERIA P	ALLITY WIDE	EMISSION	I RATES FO	) 사 이전 I I I	VEOUTOR.	OLLUTANTS - FUGITIVE SOURCES	TIVE SOUP	RCES			
	)	PMS	officeres construction and a	SOS			S		3				***************************************
Fugitive Source Name	Fugitive ID	- 44	TW		Thr	Ib/hr	Thur	B/hr	Thur	D/hr	TAF	15/hr	The
					Fugitive Source(s)	ource(s)		1000011		1001101	2 2	0 100	
Process Building 1	BLDG1	0.584	0.512							es (umbo)			
Process Building 2	BLDG2	0.167	0.733										
Process Building 3	BLDG3	0.591	1.035										
Process Building 4	BLDG4	1.086	4.757										
Jaw Crusher	JCR1	0.080	0.023										
Outside Material Transfers	TPFUG	0.727	3.185										
Mine Site Utiling		0.0/6	0.334										
Deal Track I sealing		1.024	0.0/4										
Vehicle Traffic		3 961	17 347										
Name of Fugitive Source 11													
Name of Fugitive Source 12													
Name of Fugitive Source 13	ne <u>t continue</u>												
Name of Fugitive Source 14	anistonata									ilange Agend			
Name of Fugitive Source 15													
Name of Fugitive Source 16									4				
Name of Fugitive Source 17													
Name of Fugitive Source 18													
Name of Fugitive Source 19													
Name of Fugitive Source 20													
Name of Fugitive Source 21													
(insert more rows as needed)						ing the mides in the			an abusan an	***************************************	om on the second second second		
Total		8.84	34.78										

					g/Madacodocol/suggyanggyangdaschestocomocom			
	DEG AIR QUALITY PRO 1410 N. Hilton Boise, ID 83706 For assistance: (208) 37	DEG AIR QUALITY PROGRAM 1410 N. Hilton Boise, ID 83706 For assistance: (208) 373-0502	2		PERM	PERMIT TO CONSTRUCT APPLICATION	IRUCT APPI	ICATION
Company Name:	Bear Rive	Bear River Zeolite Com	Company					
Facility Name:								
Facility ID No.:	041-00010	0						
Brief Project Description:	Install Roller Mill a	ller Mill and Mc	nd Modify Dryer					
	MMUS	SUMMARY OF AIR IM	PACT ANALY	AIR IMPACT ANALYSIS RESULTS - CRITERIA POLLUTANTS	CRITERIA POL	LUTANTS		
				2.	3,	4.	-	\$
Criteria Pollutants	Averaging Period	Significant Impact Analysis Results	Significant Contribution Level (µg/m3)	Full Impact Analysis Results (µg/m3)	Background Concentration (µg/m3)	Total Ambient Impact (µg/m3)	NAAQS (µg/m3)	Percent of NAAQS
	24-hour	65.28523	5	49,53464	73	122.53	150	82%
PM10	Annual	4.43361		4,43361	26	30.43	50	61%
AND	3-hr	0.0175	25				1300	
	24-hr	0.0036	5				365	
	Annual	0,00012	-				80	
NO <sub>2</sub>	Annual	0.08297					100	
And the second s	1-1-1-1	2,58386	2000				10000	
3	8-hr	0.72116	500				40000	

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<b>(</b>	DEG AIR QUAI 1410 N. Hilton	QUALITY PROGRAM	2							menta estat
	Boise, ID 8370 For assistance	Boise, ID 83706 For assistance: (208) 373-0502	22					T 70 CO	NSTRUCT	PERMIT TO CONSTRUCT APPLICATION
Company Name:	Bear Rive	River Zeolite Company	npany							
Facility Name:										
Facility ID No.:	041-00010									
Brief Project Description:	Install Roll	Roller Mill and Modify Dryer	odify Dryer			TOTAL CONTRACTOR CONTR			anni de la company de la compa	
			POINT SOU	RCE STAC	POINT SOURCE STACK PARAMETERS	IERS				
e e e e e e e e e e e e e e e e e e e	2.	3a.	3b.	4.	5.	6.	7	ဆိ	6	10,
Emissions units	Stack ID	UTM Easting (m)	UTM Northing (m)	Base Elevation (m)	Stack Height (m)	Modeled Diameter (m)	Stack Exit Temperature (K)	Stack Exit Flowrate (acfm)	Stack Exit Velocity (m/s)	Stack orientation (e.g., horizontal, rain cap)
Baghouse #1	BGH1	436033.9	4666000.3	1,570.20	2,21	69:0	294.26		7.71	Vertical
Baghouse #2	BGHZ	436039.0	4665971.9	1,566.69	2.44	0,40	344.26		10,77	Vertical
Baghouse #3	BGH3	436039.0	4665955.8	1,564.06	6.71	0.36	294.26		0.00	Horizontal
Baghouse #4	BGH4	436052.4	4665960.1	1,567.48	2.74	0.38	294.26		9.11	Vertical
Baghouse #5	BGHE	436035.4	4665932.5	1,562.91	1.89	0.37	294.26		14.97	Vertical
Baghouse #6	BGH6	436012.4	4665972.7	1,567.20	6.10	0.37	294.26		17.38	Vertical
name of the emissions unit?										
name of the emissions unit8	an a									
name of the emissions unit9										
name of the emissions unit10										
name of the emissions unit11										
name of the emissions unit12										
name of the emissions unit13										
name of the emissions unit14										
name of the emissions unit15										
name of the emissions unit16										
name of the emissions unit17										
name of the emissions unit18										
name of the emissions unit19										
name of the emissions unit20										
name of the emissions unit21										
(insert more rows as needed)										
	Constantion Standard Constantion Constantion	Section of the sectio	Photographic and property of the property of t	PROGRAMMENT OF THE PROGRAMMENT O	Contractions of the Contraction o	AND REPORT OF THE PROPERTY OF	NO CONTRACTOR DE LA CON	TORROSSING CONTRACTOR		

	DEQ AIR QUALITY PROGRA 1410 N. Hilton Boise, ID 83706 For assistance: (208) 373-05	DEQ AIR QUALITY PROGRAM 1410 N. Hilton Boise, ID 83706 For assistance: (208) 373-0502		<b>Contraction of the Contraction </b>	Thorace are the control of the contr		PERM	IT TO CONS	PERMIT TO CONSTRUCT APPLICATION	LICATION
Company Name:	Bear River Ze	Bear River Zeolite Company					Historica de la companya del companya del companya de la companya		NAME OF THE PROPERTY OF THE PR	
Facility Name:										
Facility ID No.:	-				04	041-00010				
Brief Project Description:	-	Install Roller Mill and Modify Dryer		Month of the Party	Assertation of the Control of the Co		ENTITIVE PARTY CONTINUES OF SERVICE PROTECTION OF SERVICE PROTECTI			
			PUGITIVI	FUGITIVE SOURCE PARAMETERS	ARAMETER:	S.				
	2.	3a.	3b.	4	က်	Ĝ.	7.	8	ග්	10.
Emissions units	Stack ID	UTM Easting (m)	UTM Northing (m)	Base Elevation (m)	Release Height (m)	Easterly Length (m)	Northerly Length (m)	Angle from North (°)	Initial Vertical Dimension (m)	Initial Horizontal Dimension (m)
Area Source(s)										
name of the emissions unit1										
name of the emissions unit2										
name of the emissions unit3										
name of the emissions unit4										
name of the emissions unit5										
name of the emissions unit6										
name of the emissions unit7										
name of the emissions unit8										
name of the emissions unit9										
name of the emissions unit10										
Volume Source(s)										
Jaw Crusher	JCR1	436,037.50	4,666,025.60	1,574.26	1.83				1.70	0.25
Primary Crushing Bldg	BLDG1	436,038.90	4,666,004.10	1,570.74	4.27				3.97	1.42
Coarse Products Bldg	BLDG2	436,026.60	4,665,945.40	1,563.20	3.05				2.84	2.98
Jeffries Hammer Mill Bldg	BLDG3	436,047.70	4,665,949.90	1,564.10	3.05				2.84	1.56
Fine Products Bldg	BLDG4	436,040.90	4,665,922.10	1,561.64	3.05				2.84	3.19
Transfer Point Fugitives	TPFUG	436,028.60	4,665,971.90	1,566.29	6.10				5.67	12.76
name of the emissions unit17	angul kata									
name of the emissions unit18										
name of the emissions unit19										
(insert more rows as needed)	······································									
	and hamman construction to the contract of the	voltementenensen en e	American	Symmetric production of the pr	Necessian de la constante de l	Вопущимурация применения применения в В потраждения в применения в применения в в применения в применения в применения в в применения в применен		Secure that the second section of the second section second secon	Physical programme and programme and physical programme and physical physic	

1410 N Hillon   Polse, ID 2018   173-0602   14410 N Hillon   Polse, ID 2018   173-0602   17410 N Hillon   Polse, ID 2018   17410 N Hight (m)   17410	<b>m</b> inistration of		DEQ AIR QUALITY PROG	ALITY PRO	SRAM	SOUTH CONTRACTOR CONTR	sta-li-trippenstrament-photocologocomment-broket-pas-encesses.	
Facility Name:   Facility Name:   Facility Name:   Facility ID No.:   O41-00010			1410 N. Hilto Boise, ID 83 For assistan	n 706 <b>ce: (208) 37</b> :	3-0502			PERMIT TO CONSTRUCT APPLICATION
Facility Name:   Facility Name:   Facility Name:   D41-00010		Company Name:	Bear Riv	er Zeolite	Sompany	NAMES OF THE PROPERTY OF THE P		
Facility ID No.: 041-00010		Facility Name:						
Building ID Number		Facility ID No.:	041-0001	0				
Building ID Number Length (ft) Width (ft) Food Solve S		Brief Project Description:	Install Ro	ller Mill and				
Building ID Number Length (ft) Width (ft) Elevation (m) Height (m) Fig. 20.00 1571.21 5.49 80.00 67.00 1564.48 6.10 60.00 67.00 1562.83 5.49 100.00 50.00 1566.15 5.49 100.00 50.00 1566.15 5.49 100.00 1566.15 5.49 12.5 1566.15 12.19 12.5 1566.08 12.19 12.5 1566.08 12.19 14.63 12.80 10.00 10.00 1566.15 14.63 12.80 10.00 10.00 1566.15 14.63 12.80 10.00 10.00 1566.15 14.63 12.80 10.00 10.00 1566.15 12.80 10.00 10.00 1566.15 12.80 10.00 10				7		STRUCTUR	E INFORMATION	
Building ID Number Length (ft) Width (ft) Elevation (m) Height (m)		a a	2.	3.	*	5.	φ.	2 kg
70.00 20.00 1571.21 80.00 67.00 1564.48 50.00 22.00 1566.19 60.00 45.00 1562.83 100.00 50.00 1566.15 13 1567.04 12.5 1566.08 14 1567.51 14 1567.91 10 1564.77 11 1566.09		Building ID Number	Length (ft)	Width (ft)	Base Elevation (m)	Building Height (m)	Number of Tiers	Description/Comments
80.00 67.00 1564.48 50.00 22.00 1566.19 60.00 45.00 1566.15 10.00 50.00 1566.15 12.5 1566.15 12.5 1566.08 14 1567.71 14 1567.71 10 1564.77 11 10 1565.09	Bld1		70.00	20.00	1571.21	5.49		Primary Crushing
50.00     22.00     1566.19       60.00     45.00     1562.83       100.00     50.00     1566.15       13     13     1567.04       12.5     1566.15       14     1567.71       14     1567.71       14     1567.71       10     1564.77       12     1566.13       10     1564.77       12     1566.13       12     1566.13       12     1566.13       12     1566.13       12     1566.13       12     1566.09	Bld2		80.00	67.00	1564.48	6.10		Coarse Products
60.00 45.00 1562.83 100.00 50.00 1566.15 Diam. (ft) 13 1566.15 12.5 1566.15 12.5 1566.15 14 1567.71 14 1567.91 10 1564.77 11 1564.77 12 1564.77 13 1565.09	Bld3		20.00	22.00	1566.19	6.10		Sec Crushing/Screen
100.00 50.00 1566.15  Diam. (ft) 13  13  12.5 1566.15  12.5 1566.08  14 1567.71  14 1567.91  10 1564.77  11 12 1564.77  12 1565.09	Bld4		90.09	45.00	1562.83	5.49		Fine Products Bldg
Diam. (ft) 1567.04 13 12.5 1566.15 12.5 1566.08 14 1567.71 14 1567.71 14 1567.71 1567.71 17 1567.71 18 1567.71 19 1567.71 11 1567.71 11 1567.71 11 1567.71	BLD5		100.00	50.00	1566.15	5.49		Warehouse
Diam. (ft) 13 12.5 12.5 12.6 12.6 12.6 14 14 1567.04 1566.15 1567.04 14 1567.04 1567.04 1567.04 1567.04 1567.01 1567.01 1567.01 1564.77 10 1566.13		retresset, produces (execute open a produce produce open produce de disconseque produce de deservate versas produces de deservate versas de deservates de de						
13     1567.04       12.5     1566.15       12.5     1566.08       14     1567.51       14     1567.71       12     1566.13       10     1564.77       12     1564.77       12     1565.09       12     1565.09		т түү түү байган тайган та	Diam. (ft)					
12.5 1566.15 12.5 1566.08 14 1567.51 14 1567.91 10 1564.77 12 1566.13 12 1566.13	BINI	теритте да подсийского ветей уделения подсийского пределения подсийского подсийского подсийского подсийского п Теритте да подсийского	13		1567.04	8.23		Minus 1 in Surge
12.5 1566.08 14 1567.51 14 1567.71 12 1566.13 10 1564.77 11 1565.09	BINZ	адарында далан аладарында өтталда айгалай электердерен өзгөлөгө айгалай дарында өттөгө өзгөлөгө өзгөлөгө өзгөл	12.5		1566.15	12.19		Jeffries 100 Ton Bin
14     1567.51       14     1567.71       14     1567.71       12     1566.13       10     1564.77       12     1565.09       1565.09	BIN3		12.5		1566.08	12.19		Philadelphia 100 Ton Bin
14     1567.71       14     1567.91       12     1566.13       10     1564.77       12     1565.09       1565.09	BIN4		14		1567.51	14.63		So Alston 150 Bin
14     1567.91       12     1566.13       10     1564.77       12     1564.77       12     1565.09	BIN5	м дей на на надажения в при	4		1567.71	14.63		Mid Alston 150 Bin
12 1566.13 10 1564.77 12 1565.09	BIN6		14		1567.91	14.63		No Alston 150 Bin
10 (1564.77 12 (1565.09	BIN7	велируй применяли устранев калана предоставления предоставления в предоставления предоставления предоставления	12		1566.13	12.80		Alston 125 Ton Feed
1565.09	BIN8		10		1564.77	15.85		F Prod -40 Bin
	BIN9		12		1565.09	12.19		F Prod 14x40
	-							
	and the second s	от протову на применя ченостворя на рекурную пределения руку на протову применения протову по пределения приме						
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# APPENDIX C

Air Dispersion Modeling Analysis

Bear River Zeolite Company, Inc.

#### **Air Dispersion Modeling Report**

#### Bear River Zeolite

#### 1. Introduction

This air dispersion modeling analysis was performed to demonstrate compliance with the ambient air quality standards for a permit application to modify Bear River Zeolite Company's Permit to construct Number 777-00278.

The original application submitted on February 15, 2007 included emissions from the Allis Chalmers tube mill located in the fine products building (building #4). This mill has been removed and the emission inventory in this application revised to reflect this. Because the revised emission inventory only resulted in a decrease of 0.049 lb/hr of PM-10 emissions, this modeling analysis was not revised, as the change to the ambient impact would not be significant.

The facility employs two crushers, four grinding mills and eleven screening plants to produce various size fractions of zeolite. Material is transported through the processing plant using conveyor belts, bucket elevators and augers. Two propane fired rotary drum dryers are used to dry the zeolite. Electricity for the facility is now provided by line power. The three diesel generators are available for emergency backup. Figure 1 below shows the facility location.

Bear River Zeolite

Reservation

Figure 1

#### 2. Model Description and Justification

AERMOD version 07026 was used to perform the air dispersion modeling analysis for PM-10, CO, SO2, NO2 and lead. This model replaces the Industrial Source Complex model ISCST3 used in the previous impact analysis. Terrain and meteorological data will be processed using AERMAP and AERMET version 06341.

The AERMOD modeling analysis was revised from the previous ISCST3 modeling analysis to reflect modifications to the facility. Because the facility now uses line power, emissions from the generators were not modeled. Two 0.75 MMBtu dryers will be employed instead of the single 1.0 MMBtu Dryer.

#### 3. Emissions and Source Data

Emission estimates are based on a maximum facility throughput of 20 tons per hour and 175,200 tons per year.

Particulate emissions from the six baghouses were calculated from the grain loading emission limit of 0.022 gr/dscf in 40 CFR 60.672. PM-10 emissions were estimated from the particle size distribution table in AP-42 Appendix B.2 Category 4 which shows 85% of the emissions are under 10 microns. CO, SO2, NO2 and lead emission estimates for the dryers, controlled by baghouse number two, were calculated using emission factors from AP-42 Table 1.5-1 (Liquefied Petroleum Gas Combustion) and Tables 1.4-2, 1.4-3 and 1.4-4 (Natural Gas Combustion). No toxic air pollutants from the dryers exceeded the emission screening levels. An exit velocity of 0.001 m/sec. was used for baghouse 3, which exhausts horizontally. Table 1 below summarizes the baghouse stack parameters and emissions.

**Table 1 Modeled Point Source Data** 

Source ID	Easting (X)	Northing (Y)	Base Elevation (ft)	Stack Height	Temperature (°F)	Exit Velocity (m/s)	Stack Diameter (ft)	PMTEN (lb/hr)	CO (lb/hr)	SO2 (lb/hr)	NO2 (lb/hr)	PB (lb/hr)
BGH1	436033.9	4666000.3	5151.6	7.2	70.0	7.708	2.260	0.801	0	0	0	0
BGH2	436039.0	4665971.9	5140,0	8.0	160.0	10.768	1.310	0.376	0.0312	3.29E-04	0.230	7.35E-07
BGH3	436039.0	4665955.8	5131.4	22,0	70.0	0.001	1.180	0.511	0	0	0	0
BGH4	436052.4	4665960.1	5142.7	9.0	70.0	9.111	1.250	0.318	0	0	0	0
BGH5	436035.4	4665932.5	5127.7	6.2	70.0	14.973	1.220	0.454	0	0	0	0
BGH6	436012.4	4665972.7	5141.7	20.0	70.0	17.382	1.220	0.528	0	0	0	0

Process fugitive emissions from crushing, screening and material transfers inside buildings were estimated from emission factors in AP-42 11.19.2. Fugitive emissions generated inside a building were totaled, given a control efficiency of 70% and modeled as a single volume source for that building. Horizontal and vertical dimensions were calculated following Table 3-1 of the AERMOD Users Guide by dividing the building width by 4.3 and the building height by 2.15.

The facility has 18 material transfer points not enclosed in buildings. These transfers include material feed to the apron feeder and jaw crusher, conveyor belt transfers, bucket elevator transfers, transfers into storage silos, the stockpile and truck load-out. It would not be feasible to model each of these transfer points as an individual volume sources. Not all transfers operate at the same time or at the same throughput rate. To estimate the ambient impact for these fugitive emissions, they were combined into a single volume source (TPFUG) with an average release height of 20 feet and a

vertical height of 40 feet ( $\sigma_{zo}$  18.60). Emissions were estimated using the predictive emissions equation in AP-42 13.2.4 using a moisture content (M) of 2.5% and an average wind speed (U) of 10 miles per hour. This equation gives an emission factor of 0.00202 lb PM-10 per ton of material transferred with the PM-10 particle size multiplier (k) of 0.32. To be conservative, all of the 18 transfer points were assigned the maximum throughput of 20 tons per hour. The emissions calculation is shown below.

$$E_{f}\left(\frac{lb}{ton}\right) = (k \times 0.0032) \frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}} = (0.35 \times 0.0032) \frac{\left(\frac{10}{5}\right)^{1.3}}{\left(\frac{2.5}{2}\right)^{1.4}} = 2.02E - 03 lb PM_{10}/ton$$

 $2.02\mathrm{E}-3~\mathrm{lb}~\mathrm{PM}_{10}/\mathrm{ton}\times20~\mathrm{tons}/\mathrm{hr}\times18~\mathrm{transfers}$  = 0.7272 lb  $\mathrm{PM}_{10}/\mathrm{hr}$ 

The volume source data is summarized in Table 2 below.

Table 2 Modeled Volume Source Data

Source ID	Source Description	Easting (X) (m)	Northing (Y)	Base Elevation (ft)	Release Height (ft)	Horizontal Dimension (ft)	Vertical Dimension (ft)	PMTEN (lb/hr)
JCR1	Jaw Crusher	436037.5	4666025.6	5164.9	6.0	0.820	5.577	0.080
BLDG1	Primary Crushing Bldg	436038.9	4666004.1	5153.3	14.0	4.659	13.025	0.584
BLDG2	Coarse Products Bldg	436026.6	4665945.4	5128.6	10.0	9.777	9.318	0.167
BLDG3	Jeffries Hammer Mill Bldg	436047.7	4665949.9	5131.6	10.0	5.118	9.318	0.591
BLDG4*	Fine Products Bldg	436040.9	4665922.1	5123.5	10.0	10.466	9.318	1.135
TPFUG	Transfer Point Fugitives	436028.6	4665971.9	5138.7	20.0	41.864	18,602	0.727

<sup>\*</sup> Note Removal of the Allis Chalmers Tube Mill changes the emissions from BLDG4 (Fine Products Building) to 1.086 lb PM-10/hr.

The facility has five buildings and nine storage silos. The Building Profile Input Program BPIP-Prime was used to account for building downwash in the AERMOD model analysis. The building and storage bin dimensions are shown in Tables 3 and 4.

**Table 3 Building Dimensions** 

Building ID	Building Name	Number of Tiers	Comment	Base Elevation (ft)	Tier Height (m)	Number of Corners	Corner 1 East (X) (m)	Corner 1 North (Y) (m)
BLD1-1	BLD1	1	Primary Crushing	5154.9	5.4864	4	436035.9	4666014.8
BLD2-1	BLD2	1	Coarse Products	5132.8	6.096	8	436015.7	4665951.1
BLD3-1	BLD3	1	Sec Crushing/Screen	5138.4	6.096	4	436043.8	4665961.7
BLD4-1	BLD4	1	Fine Products Bldg	5127.4	5.4864	4	436034	4665931.3
BLD5-1	BLD5	1	Warehouse	5138.3	5,4864	4	436060.8	4665913.2

**Table 4 Storage Bin Dimensions** 

Tank Name	Description	Base Elevation (ft)	Center East (X) (m)	Center North (Y) (m)	Tank Height (ft)	Tank Diameter (ft)
BINI	Mimus 1 in Surge	5142	436043.6	4665974.9	27	13
BIN2	Jeffries 100 Ton Bin	5136	436048.3	4665963.6	40	12.5
BIN3	Philadelphia 100 Ton Bin	5134	436036.1	4665960.6	40	12.5
BIN4	So Alston 150 Bin	5142	436006	4665968.5	48	14
BIN5	Mid Alston 150 Bin	5143	436006	4665972.7	48	14
BIN6	No Alston 150 Bin	5144	436006	4665977	48	14
BIN7	Alston 125 Ton Feed	5137	436028.7	4665969.7	42	12
BIN8	F Prod -40 Bin	5129	436052.3	4665923.4	52	10
BIN9	F Prod 14x40	5126	436050.2	4665917.6	40	12

Figure 2 shows the facility layout with the buildings labeled as black rectangles and the emission sources shown in red. They are overlaid on the UTM grid.



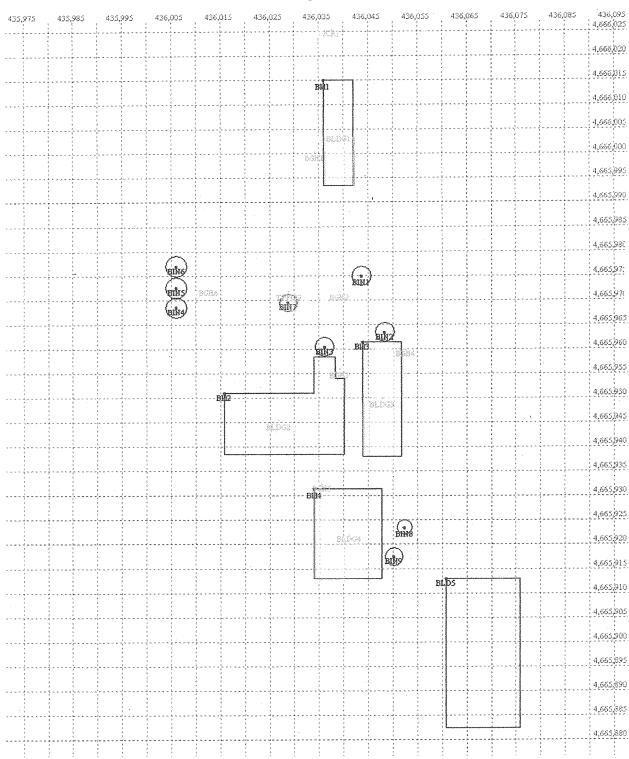


Figure 3 shows the facility in relation to local topography and the ambient air boundary as was used in the previous permit modeling.

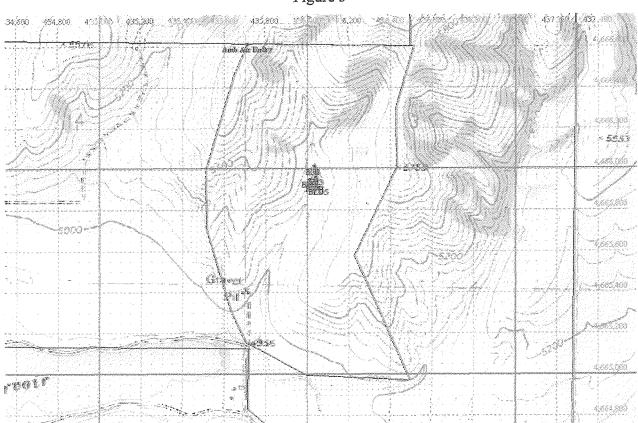


Figure 3

## 4. Receptor Network

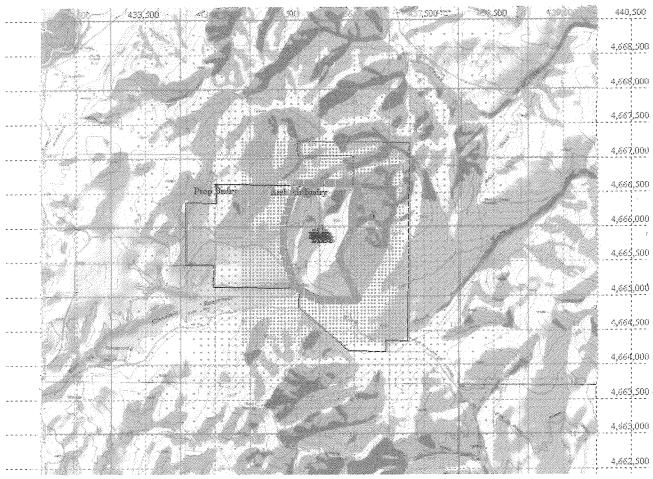
The receptor network will be a rectangular grid extending 2000 meters beyond the source. Receptors will be spaced from 25 meters apart for the fine grid to 200 meters apart for the coarsest grid as shown in the table and graphic below.

**Table 4 Receptor Spacing** 

Receptor Spacing	Distance
25 meters	Fence Line Out to 100 meters
50 meters	Out to 600 meters
100 meters	Out to 1,200 meters
200 meters	Out to 2,000 meters

Figure 4 shows the receptor network and the ambient air boundary.

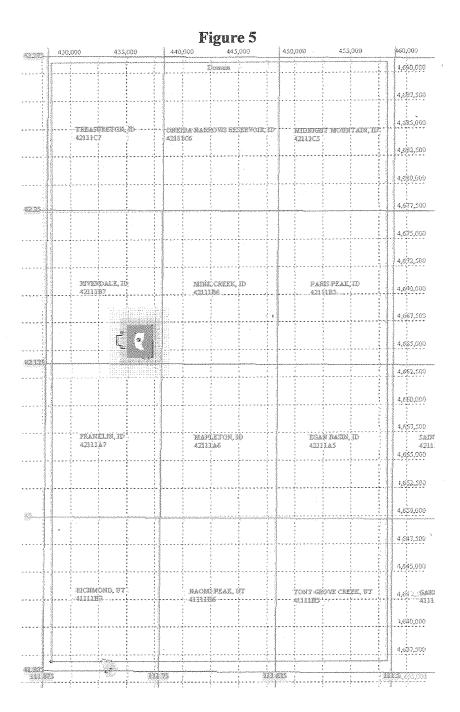
Figure 4



An ambient air boundary was constructed around the plant and mine site and within the property controlled by Bear River Zeolite. The only vehicle access to the facility is by a ½ mile gated private road. Public access to other areas within the ambient air boundary would require crossing posted private agricultural land and/or traversing difficult terrain by foot. Unauthorized people entering the ambient air boundary would likely be spotted and confronted by plant personnel.

#### 5. AERMAP Input and Elevation Data

All building, source base and receptor elevations were calculated from 7.5-minute, 30-meter resolution DEM data using 1927 North American Data (NAD27) using the AERMAP preprocessor. Figure 5 shows the 7.5-minute quadrangles and the domain limits.



### 6. Meteorological Data

Five years of National Weather Service (NWS) meteorological data for the years 1987 through 1991 was used in the modeling analysis. Surface data came from the Pocatello NWS station number 24156. Because the Pocatello station does not collect upper air data, the Boise, Idaho Station number 24131 upper air data was used. These are the same stations and years used in the previous ISCT3 modeling for the facility.

An additional modeling analysis was made using meteorological data supplied by the State. This was collected at the Monsanto site outside Soda Springs and used Salt Lake City upper air. Table 5 summarizes the meteorological information.

**Table 5 Meteorological Information** 

Parameter	Station	Latitude	Longitude	Time Zone Adjust	Base Elevation	Anemometer Height
Surface Meteorlogical Data	Pocatello, ID No. 24156	42.92	112.571	0	4461	20 ft
Upper Air Meteorlogical Data	Boise, ID No. 24131	43.565	116.22	+7	2874	20 ft
Site Location	Bear River Zeolite	47.543	116.132	+7	- Contractor Contracto	

The albedo, Bowen ratio and surface roughness parameters required in the AERMET processing was based on seasonal values shown in the AERMET Manual tables 4-1, 4-2 and 4-3. The surface characteristics within a 3-kilometer radius of the meteorological station most closely resemble cultivated land and grassland. Four wind sectors were chosen to reflect the surface characteristic as shown in Figure 6.

So Coogle

Figure 6

Table 6 shows the seasonal values used in the meteorological processing.

**Table 6 AERMET Site Characteristics Parameters** 

	Grass Land/Average Moisture									
Sectors	Time Frequency	Surface Albedo	Bowen Ratio	Surface Roughness						
en nota tentro tina taki kita no taki kangapiran mentehi menanci sa tana unang pangana sa sa sa menangkan di ma	Winter	0.6	1.5	0.001						
Sector 1 (30° - 70°) and	Spring	0.18	0.4	0.05						
Sector 3 (185° - 280°)	Summer	0.18	0.8	0.1						
	Autumn	0.2	1.0	0.01						
		Cultivated Land/	Average Moisture							
	Winter	0.6	1.5	0.01						
Sector 2 (70° - 185°) and	Spring	0.14	0.3	0.03						
Sector 4 (280° - 30°)	Summer	0.2	0.5	0.2						
	Autumn	0.18	0.7	0.05						

#### 7. Land Use Classification

Rural land use was used in the modeling analysis. Over 50 percent of the area within a 3 kilometer radius is classified as A2, agricultural rural A3, or undeveloped uncultivated. Population density is less than 750 people per square mile.

#### 8. Background Concentrations

Rural agricultural background concentrations provided by the Idaho Department of Environmental Quality were added to the modeled results for the National Ambient Air Quality Standards (NAAQS) analysis. The background concentrations used are shown below.

	Averaging	Background
Pollutant	Period	Concentration
PM10	24-hr	$73 \mu g/m^3$
riviiu	Annual	26 μg/m <sup>3</sup>
CO	1-hr	$3,600  \mu \text{g/m}^3$
CO	8-hr	$2,300  \mu g/m^3$
NO2	Annual	$17 \mu\mathrm{g/m}^3$
	3-hr	34 μg/m <sup>3</sup>
SO2	24-hr	$26 \mu \text{g/m}^3$
	Annual	8 μg/m <sup>3</sup>
Pb	Quarterly	$0.03 \ \mu g/m^3$

### 9. Evaluation of Compliance with Applicable Standards

A significant impact analysis for criteria air pollutants was performed to determine if the maximum impact to the ambient air exceeds the significant contribution levels of IDAPA 58.01.01.006.93. For pollutants that exceed the significant contribution level, a full impact analysis of the NAAQS must be made. The NAAQS analysis requires adding background concentrations to the modeled ambient concentrations.

Results of the significant impact analysis and the NAAQS analysis are shown in Tables 7 and 8.

**Table 7 Significant Impact Analysis** 

Pollutant	Averaging Period	Ambient Impact (μg/m³)	Significant Contribution (µg/m³)	Full Impact Analysis Required?
DX 10	24-hour	65.28523	5	YES
PM-10	Annual	4.43361	1	YES
CO	1-hour	2,58386	2,000	NO
CO	8-hour	0.72116	500	МО
	3-hour	0.0175	25	NO
SO2	24-hour	0.0036	5	NO
	Annual	0.00012	1	NO
NO2	Annual	0.08297	I I	NO

Significant Impact Analysis

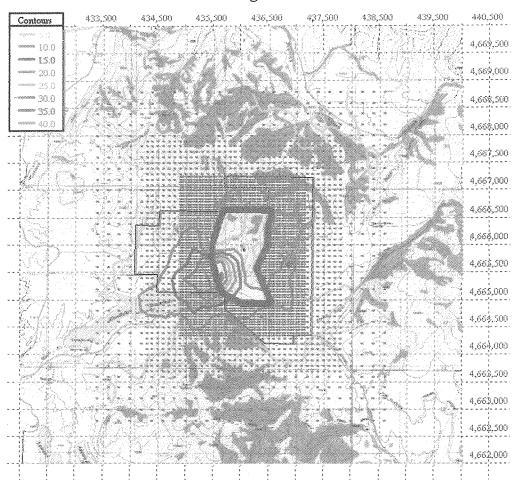
**Table 8 NAAQS Analysis** 

**NAAOS** Analysis

		Ambient	Background	Total Ambient	Regulatory	
	Averaging	Impact	Concentration	Concentration	Limit	Percent of
Pollutant	Period	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	NAAQS
PM-10	24-hour	49.53464	73	122.53464	150	81.69
PIVI-10	Annual	4.43361	26	30,43361	50	60.87
Lead	Quarterly	1.35E-05	0.03	0.0300	1.5	2.00

Figure 7 below shows the highest 6<sup>th</sup>-highest PM10 concentration contours for the five-year (1987-1991) meteorological data file.

Figure 7



Electronic copies of the input, output and supporting files needed to duplicate the modeling results are included in Appendix D.

#### Air Dispersion Modeling Results Bear River Zeolite Company Preston, Idaho

Summary														
Model	File	Pol	Average	Group	Rank	Conc.	East(X)	North(Y)	Elev	Time	Met File	Sources	Groups	Rec.
AERMOD	BRZ_87_91_PMTEN.USF	PMTEN	24-HR	ALL	1ST	65.28523	435490.69	4665624	1565.36	89120224	BRZ_87_91.SFC	12	13	4374
AERMOD	BRZ_87_91_PMTEN.USF	PMTEN	24-HR	ALL	6TH		435545.69	4665614			BRZ_87_91.SFC	12	13	4374
AERMOD	BRZ_91_PMTEN.USF	PMTEN		ALL	IST	3.65993	435545.69	4665614	1564.99	1 YRS	BRZ_91.SFC	12	13	4374
AERMOD AERMOD	BRZ_03_PMTEN.USF BRZ_88_CO.USF	PMTEN CO	ANNUAL 1-HR	ALL ALL	IST IST	4.43361	436049.59 437000	4664995.5 4666050	1518.97	1 YRS 88022502	AgBRZ_03.SFC BRZ_88.SFC	12 1	13 2	4374 4374
AERMOD	BRZ 87 CO.USF	co	1-HR	ALL	2ND	2.54022	437000	4665900		87011709	BRZ 87.SFC	ì	2	4374
AERMOD	BRZ 89 CO.USF	co	8-HR	ALL	1ST	0.72116	435590.69	4665449		89113008	BRZ_89.SFC	1	2	4374
AERMOD	BRZ_89_CO.USF	CO	8-HR	ALL	2ND	0.55397	435590.69	4665424		89120324	BRZ_89.SFC	1	2	4374
AERMOD	BRZ_88_SO2.USF	SO2	3-HR	ALL	IST	0.0175	436950	4666000		88120306	BRZ_88.SFC	1	2	4374
AERMOD AERMOD	BRZ_87_SO2.USF BRZ_88_SO2.USF	SO2 SO2	3-HR 24-HR	ALL ALL	2ND 1ST	0.00893	437000 436950	4665900 4666000		87011709 88120324	BRZ_87.SFC BRZ_88.SFC	1	2 2	4374 4374
AERMOD	BRZ 89_SO2.USF	SO2	24-HR	ALL	2ND	0.0030	435656.59	4665266.5		89122324	BRZ 89.SFC	1	2	4374
AERMOD	BRZ 91 SO2.USF	SO2	ANNUAL	ALL	1ST	0.00012	435545.69	4665614	1564.99	1 YRS	BRZ 91.SFC	1	2	4374
AERMOD	BRZ_91_NO2.USF	NO2	ANNUAL	ALL	1ST	0.08297	435545.69	4665614	1564.99	1 YRS	BRZ_91.SFC	1	2	4374
AERMOD	BRZ_87_PB.USF	PB	1-HR	ALL	1ST	0.00006	437000	4665900		87011704	BRZ_87.SFC	1	2	4374
AERMOD	BRZ_87_PB.USF	PB	Quarterity	ALL	IST	1.35E-05	437000	4665900	1567.18	87011704	BRZ_87.SFC	1	2	4374
5 Year Mete	eorological File PM 10 Run													
Model	File	Pol	Average	Group	Rank	Conc.	East(X)	North(Y)	Elev	Time	Met File	Sources		
AERMOD AERMOD	BRZ_87_91_PMTEN.USF BRZ_87_91_PMTEN.USF	PMTEN	24-HR 24-HR	ALL ALL	1ST 6TH	65.28523	435490.69 435545.69	4665624 4665614			BRZ_87_91.SFC BRZ_87_91.SFC	12 12	13 13	4374 4374
AERMOD	BRZ 87 91 PMTEN.USF		24-HR	BGH1	1ST	6.523	435490.69	4665749			BRZ 87 91.SFC	12	13	4374
AERMOD	BRZ 87 91 PMTEN.USF		24-HR	BGH1	6TH	4.76233	435490.69	4665724			BRZ 87 91.SFC	12	13	4374
AERMOD	BRZ_87_91_PMTEN.USF		24-HR	BGH2	1ST	4.11208	436950	4666000			BRZ_87_91.SFC	12	13	4374
AERMOD	BRZ_87_91_PMTEN.USF	PMTEN	24-HR	BGH2	6TH	1.94603	435545.69	4665614	1564.99	89112824	BRZ_87_91.SFC	12	13	4374
AERMOD	BRZ_87_91_PMTEN.USF		24-HR	BGH3	1ST	6.99174	436850	4665700			BRZ_87_91.SFC	12	13	4374
AERMOD	BRZ_87_91_PMTEN.USF		24-HR 24-HR	BGH3 BGH4	6TH 1ST	4.26035	435515.69 435540.69	4665624 4665624			BRZ_87_91.SFC BRZ_87_91.SFC	12 12	13 13	4374 4374
AERMOD AERMOD	BRZ_87_91_PMTEN.USF BRZ_87_91_PMTEN.USF		24-HR	BGH4	6TH	2.5135	435538.81	4665637.5			BRZ 87 91.SFC	12	13	4374
AERMOD	BRZ 87 91 PMTEN.USF		24-HR	BGH5	1ST	5.14245	435538.81	4665637.5			BRZ 87 91.SFC	12	13	4374
AERMOD	BRZ_87_91_PMTEN.USF		24-HR	BGH5	6TH	3.78296	435540.69	4665624	1567.34	88121624	BRZ_87_91.SFC	12	13	4374
AERMOD	BRZ_87_91_PMTEN.USF		24-HR	BGH6	1ST	3.99912	435565.69	4665474			BRZ_87_91.SFC	12	13	4374
AERMOD	BRZ_87_91_PMTEN.USF		24-HR	BGH6	6TH	2.5341	435540.69	4665624			BRZ_87_91.SFC	12	13	4374
AERMOD	BRZ_87_91_PMTEN.USF BRZ_87_91_PMTEN.USF	PMTEN	24-HR 24-HR	JCR1 JCR1	1ST 6TH	2.40456 1.70097	435580.5 435465.69	4665497 4665724			BRZ_87_91.SFC BRZ_87_91.SFC	12 12	13 13	4374 4374
AERMOD AERMOD	BRZ_87_91_PMTEN.USF		24-HR	BLDG1	1ST	9.84292	435465.69	4665724			BRZ_87_91.SFC	12	13	4374
AERMOD		PMTEN	24-HR	BLDGI	6TH	6.92364	435538.81	4665637.5			BRZ 87 91.SFC	12	13	4374
AERMOD	744 <u></u> 244		24-HR	BLDG2	1ST	4.08674	435490.69	4665624	1565.36	89120224	BRZ_87_91.SFC	12	13	4374
AERMOD	BRZ_87_91_PMTEN.USF		24-HR	BLDG2	6TH	2.75516	435540.69	4665599			BRZ_87_91.SFC	12	13	4374
AERMOD	BRZ_87_91_PMTEN.USF		24-HR	BLDG3	1ST		435490.69	4665624			BRZ_87_91.SFC	12	13	4374 4374
AERMOD AERMOD	BRZ_87_91_PMTEN.USF BRZ_87_91_PMTEN.USF	PMTEN	24-HR 24-HR	BLDG3 BLDG4	6TH 1ST		435545.69 435515.69	4665614 4665599			BRZ_87_91.SFC BRZ_87_91.SFC	12 12	13 13	4374
AERMOD	BRZ 87 91 PMTEN.USF	PMTEN	24-HR	BLDG4	6TH		435540.69	4665599			BRZ 87 91.SFC	12	13	4374
AERMOD	BRZ_87_91_PMTEN.USF	<b>PMTEN</b>	24-HR	TPFUG	1ST	7.46674	435465.69	4665699	1570.08	91122224	BRZ_87_91.SFC	12	13	4374
AERMOD	BRZ_87_91_PMTEN.USF	PMTEN	24-HR	TPFUG	6TH	6.00601	435465.69	4665674	1566.74	91013024	BRZ_87_91.SFC	12	13	4374
Single Year	Meteorological File Runs					,								
Model	File	Pol	Average	Group		Conc.	East(X)	North(Y)	Elev	Time	Met File	Sources		***************************************
AERMOD	BRZ_87_PMTEN.USF		ANNUAL	ALL	IST	3.27963 0.27795	435545.69	4665614	1564.99 1577.78	1 YRS	BRZ_87.SFC BRZ_87.SFC	12	13 13	4374 4374
AERMOD AERMOD	BRZ_87_PMTEN.USF BRZ_87_PMTEN.USF		ANNUAL ANNUAL		IST IST	0.10756	435531.81 435545.69	4665660.5 4665614	1564.99	1 YRS 1 YRS	BRZ_87.SFC	12 12	13	4374
AERMOD	BRZ_87 PMTEN.USF		ANNUAL		1ST	0.25897		4665624	1569.81	1 YRS	BRZ 87.SFC	12	13	4374
AERMOD	BRZ_87_PMTEN.USF		ANNUAL		1ST	0.15193	435540.69	4665624	1567.34	1 YRS	BRZ_87.SFC	12	13	4374
AERMOD	BRZ_87_PMTEN.USF		ANNUAL		IST	0.21476		4665614	1564.99	1 YRS	BRZ_87.SFC	12	13	4374
AERMOD	BRZ_87_PMTEN.USF		ANNUAL		1ST	0.14567	435531.81	4665660.5	1577.78	1 YRS	BRZ_87.SFC	12	13	4374
AERMOD	BRZ_87_PMTEN.USF BRZ 87 PMTEN.USF		ANNUAL ANNUAL	JCR1	IST IST	0.07317 0.37233	435490.69 435538.81	4665674 4665637.5	1576.1 1572.43	1 YRS 1 YRS	BRZ_87.SFC BRZ_87.SFC	12 12	13 13	4374 4374
AERMOD AERMOD	BRZ_87 PMTEN.USF		ANNUAL		1ST	0.14121	435545.69	4665614	1564.99	1 YRS	BRZ 87.SFC	12	13	4374
AERMOD	BRZ 87 PMTEN.USF		ANNUAL		1ST	0.48844	435545.69	4665614	1564.99	1 YRS	BRZ 87.SFC	12	13	4374
AERMOD	BRZ_87_PMTEN.USF		ANNUAL		1ST	0.94987	435540.69	4665599	1562.77	1 YRS	BRZ_87.SFC	12	13	4374
AERMOD	BRZ_87_PMTEN.USF		ANNUAL		1ST	0.37139	435540.69	4665624	1567.34	1 YRS	BRZ_87.SFC	12	13	4374
AERMOD	BRZ_88_PMTEN.USF		ANNUAL	ALL	1ST	2.85378	435545.69	4665614	1564.99	1 YRS	BRZ_88.SFC	12	. 13	4374
AERMOD	BRZ_88_PMTEN.USF		ANNUAL		1ST	0.26186	435524.91	4665684	1580.15	1 YRS	BRZ_88.SFC	12	13	4374
AERMOD AERMOD	BRZ_88_PMTEN.USF BRZ_88_PMTEN.USF		ANNUAL ANNUAL		IST IST	0.09945	435531.81 435515.69	4665660.5 4665624	1577.78 1569.81	1 YRS 1 YRS	BRZ_88.SFC BRZ_88.SFC	12 12	13 13	4374 4374
AERMOD	BRZ 88 PMTEN.USF		ANNUAL		IST	0.1357	435540.69	4665624	1567.34	1 YRS	BRZ 88.SFC	12	13	4374
AERMOD	BRZ_88_PMTEN.USF		ANNUAL		1ST	0.19741	435540.69	4665624	1567.34	1 YRS	BRZ_88.SFC	12	13	4374
AERMOD	BRZ_88_PMTEN.USF		ANNUAL	BGH6	1ST	0.13509	435524.91	4665684	1580.15	1 YRS	BRZ_88.SFC	12	13	4374
AERMOD	BRZ_88_PMTEN.USF		ANNUAL	JCR1	1ST	0.06678	435490.69	4665674	1576.1	1 YRS	BRZ_88.SFC	12	13	4374
AERMOD	BRZ_88_PMTEN.USF		ANNUAL		1ST	0.32949	435490.69	4665649	1571.22	1 YRS	BRZ_88.SFC	12	13	4374
AERMOD	BRZ_88_PMTEN.USF		ANNUAL		1ST 1ST	0.12217 0.4347	435545.69	4665614	1564.99 1564.99	1 YRS 1 YRS	BRZ_88.SFC BRZ_88.SFC	12 12	13 13	4374 4374
AERMOD AERMOD	BRZ_88_PMTEN.USF BRZ_88_PMTEN.USF		ANNUAL ANNUAL		1ST	0.4347	435545.69 435540.69	4665614 4665599	1562.77	1 YRS	BRZ_88.SFC	12	13	4374
AERMOD	BRZ 88 PMTEN.USF		ANNUAL		IST	0.31343	435540.69	4665624	1567.34	1 YRS	BRZ_88.SFC	12	13	4374
AERMOD	BRZ_89_PMTEN.USF		ANNUAL	ALL	1ST	3.3113	435545.69	4665614	1564.99	1 YRS	BRZ_89.SFC	12	13	4374

	Model	File	Pol	Average	Group		Conc.	East(X)	North(Y)	Elev	Time	Met File		Groups	
	AERMOD	BRZ_89_PMTEN.USF		ANNUAL	BGH1	1ST	0.26633	435524.91	4665684	1580.15	1 YRS	BRZ_89.SFC	12	13	4374
	AERMOD	BRZ_89_PMTEN.USF		ANNUAL	BGH2	IST	0.12601	435594.41	4665450.5	1547.56	1 YRS	BRZ_89.SFC	12	13	4374
	AERMOD	BRZ_89_PMTEN.USF		ANNUAL	BGH3	1ST	0.25781	435545.69	4665614	1564.99	1 YRS	BRZ_89.SFC	12	13	4374
	AERMOD	BRZ_89_PMTEN.USF		ANNUAL	BGH4	IST	0.13816	435540.69	4665624	1567.34	1 YRS	BRZ_89.SFC	12	13	4374
	AERMOD	BRZ_89_PMTEN.USF		ANNUAL	BGH5		0.20005	435538.81	4665637.5	1572.43	1 YRS	BRZ_89.SFC	12	13	4374
	AERMOD	BRZ_89_PMTEN.USF		ANNUAL	BGH6	IST	0.1558	435540.69 435515.69	4665624	1567.34	I YRS	BRZ_89.SFC	12	13	4374
	AERMOD AERMOD	BRZ_89_PMTEN.USF		ANNUAL ANNUAL	JCR1	IST IST	0.06985 0.38398	435538.81	4665649 4665637.5	1575.24 1572.43	1 YRS 1 YRS	BRZ_89.SFC BRZ_89.SFC	12 12	13 13	4374 4374
	AERMOD	BRZ_89_PMTEN.USF BRZ_89_PMTEN.USF		ANNUAL		IST	0.13673	435545.69	4665614	1564.99	1 YRS	BRZ_89.SFC	12	13	4374
	AERMOD	BRZ 89 PMTEN.USF		ANNUAL		IST	0.13073	435545.69	4665614	1564.99	1 YRS	BRZ 89.SFC	12	13	4374
	AERMOD	BRZ 89 PMTEN.USF		ANNUAL		IST	0.90453	435540.69	4665599	1562.77	1 YRS	BRZ 89.SFC	12	13	4374
	AERMOD	BRZ 89 PMTEN.USF		ANNUAL		IST	0.38298	435540.69	4665624	1567.34	1 YRS	BRZ 89.SFC	12	13	4374
	AERMOD	BRZ_90_PMTEN.USF		ANNUAL	ALL	IST	2.61844		4665614	1564.99	1 YRS	BRZ 90.SFC	12	13	4374
	AERMOD	BRZ 90 PMTEN.USF		ANNUAL	BGH1	IST	0.23065	435538.81	4665637.5	1572.43	1 YRS	BRZ 90.SFC	12	13	4374
	AERMOD	BRZ_90 PMTEN.USF		ANNUAL	BGH2	IST	0.0987	435545.69	4665614	1564.99	1 YRS	BRZ 90.SFC	12	13	4374
	AERMOD	BRZ_90_PMTEN.USF		ANNUAL	BGH3	IST	0.20809	435545.69	4665614	1564.99	1 YRS	BRZ 90.SFC	12	13	4374
	AERMOD	BRZ 90 PMTEN.USF		ANNUAL	BGH4	1ST	0.1103	435545.69	4665614	1564.99	1 YRS	BRZ 90.SFC	12	13	4374
	AERMOD	BRZ_90_PMTEN.USF	PMTEN	ANNUAL	BGH5	1ST	0.15957	435540.69	4665599	1562.77	1 YRS	BRZ_90.SFC	12	13	4374
	AERMOD	BRZ_90_PMTEN.USF	PMTEN	ANNUAL	BGH6	1ST	0.13918	435540.69	4665624	1567.34	1 YRS	BRZ_90.SFC	12	13	4374
	AERMOD .	BRZ90_PMTEN.USF	PMTEN	ANNUAL	JCR1	IST	0.05784	435515.69	4665649	1575.24	1 YRS	BRZ_90.SFC	12	13	4374
	AERMOD	BRZ_90_PMTEN.USF		ANNUAL		1ST	0.31568	435538.81	4665637.5	1572.43	1 YRS	BRZ_90.SFC	12	13	4374
•	AERMOD	BRZ_90_PMTEN.USF		ANNUAL			0.10906	435545.69	4665614	1564.99	1 YRS	BRZ_90.SFC	12	13	4374
	AERMOD	BRZ_90_PMTEN.USF		ANNUAL		1ST	0.3582	435545.69	4665614	1564.99	1 YRS	BRZ_90.SFC	12	13	4374
	AERMOD	BRZ_90_PMTEN.USF		ANNUAL		IST	0.66587		4665599	1562.77	1 YRS	BRZ_90.SFC	12	13	4374
	AERMOD	BRZ_90_PMTEN.USF		ANNUAL		1ST	0.31261	435540.69	4665624	1567.34	1 YRS	BRZ_90.SFC	12	13	4374
	AERMOD	BRZ_91_PMTEN.USF		ANNUAL	ALL	IST	3.65993	435545.69	4665614 4665637.5	1564.99	1 YRS 1 YRS	BRZ_91.SFC	12 12	13 13	4374 4374
	AERMOD AERMOD	BRZ_91_PMTEN.USF BRZ_91_PMTEN.USF		ANNUAL ANNUAL	BGH1 BGH2	IST IST	0.31583	435538.81 435545.69	4665614	1572.43 1564.99	1 YRS	BRZ_91.SFC BRZ_91.SFC	12	13	4374
	AERMOD	BRZ_91_PMTEN.USF		ANNUAL	BGH2 BGH3	1ST		435540.69	4665624	1567.34	1 YRS	BRZ_91.SFC	12	13	4374
	AERMOD	BRZ_91_PMTEN.USF		ANNUAL	BGH4	IST	0.15816	435545.69	4665614	1564.99	1 YRS	BRZ_91.SFC	12	13	4374
	AERMOD	BRZ 91 PMTEN.USF		ANNUAL	BGH5	IST	0.2307	435540.69	4665599	1562.77	1 YRS	BRZ 91.SFC	12	13	4374
	AERMOD	BRZ_91_PMTEN.USF		ANNUAL	BGH6	IST	0.17949		4665624	1567.34	1 YRS	BRZ 91.SFC	12	13	4374
	AERMOD	BRZ 91 PMTEN.USF	PMTEN	ANNUAL	JCR1	1ST	0.08802	435515.69	4665649	1575.24	1 YRS	BRZ 91.SFC	12	13	4374
	AERMOD	BRZ_91_PMTEN.USF	<b>PMTEN</b>	ANNUAL	BLDGI	1ST	0.44137	435538.81	4665637.5	1572.43	1 YRS	BRZ_91.SFC	12	13	4374
	AERMOD	BRZ_91_PMTEN.USF	PMTEN	ANNUAL	BLDG2	1ST	0.16092	435545.69	4665614	1564.99	1 YRS	BRZ_91.SFC	12	13	4374
	AERMOD	BRZ_91_PMTEN.USF	PMTEN	ANNUAL	BLDG3	1ST	0.53548	435545.69	4665614	1564.99	1 YRS	BRZ_91.SFC	12	13	4374
	AERMOD	BRZ_91_PMTEN.USF	PMTEN	ANNUAL	BLDG4	1ST	1.00532	435540.69	4665599	1562.77	1 YRS	BRZ_91.SFC	12	13	4374
	AERMOD	BRZ_91_PMTEN.USF		ANNUAL			0.42644	435540.69	4665624	1567.34	I YRS	BRZ_91.SFC	12	13	4374
	Model	File	Pol	Average	Group	Rank	Conc.	East(X)	North(Y)	Elev	Time	Met File	Sources	Groups	Rec.
	AERMOD	BRZ_03_PMTEN.USF		ANNUAL	ALL	IST	4.43361	436049.59	4664995.5	1518.97	1 YRS	AgBRZ_03.SFC	12	13	4374
	AERMOD	BRZ_03_PMTEN.USF		ANNUAL	BGH1	IST	0.27663	436450	4665500	1582.37	1 YRS	AgBRZ_03.SFC	12	13	4374
	AERMOD	BRZ_03_PMTEN.USF		ANNUAL	BGH2	IST	0.13489	436450	4665500	1582.37 1569.42	1 YRS 1 YRS	AgBRZ_03.SFC	12 12	13 13	4374 4374
	AERMOD AERMOD	BRZ_03_PMTEN.USF		ANNUAL ANNUAL	BGH3 BGH4	1ST 1ST	0.44521 0.15677	436550 436450	4665450 4665450	1579.17	I YRS	AgBRZ_03.SFC AgBRZ_03.SFC	12	13	4374
	AERMOD	BRZ_03_PMTEN.USF BRZ_03_PMTEN.USF		ANNUAL	BGH5	1ST	0.13077	436500	4665500	1580.08	1 YRS	AgBRZ 03.SFC	12	13	4374
	AERMOD	BRZ_03_PMTEN.USF		ANNUAL	BGH6	IST	0.17992	436387.59	4665222	1585.05	1 YRS	AgBRZ 03.SFC	12	13	4374
	AERMOD	BRZ 03 PMTEN.USF		ANNUAL	JCR1	IST	0.09458	436600	4665500	1573.79	1 YRS	AgBRZ 03.SFC	12	13	4374
	AERMOD	BRZ 03 PMTEN.USF		ANNUAL		IST	0.54527	436500	4665450	1570.94	1 YRS	AgBRZ 03.SFC	12	13	4374
	AERMOD	BRZ 03 PMTEN.USF		ANNUAL		1ST	0.18295	436049.59	4664995.5	1518.97	1 YRS	AgBRZ 03.SFC	12	13	4374
	AERMOD	BRZ 03 PMTEN.USF	<b>PMTEN</b>	ANNUAL	BLDG3	IST	0.64178	436074.41	4664994.5	1520.04	1 YRS	AgBRZ_03.SFC	12	13	4374
	AERMOD	BRZ 03 PMTEN.USF	<b>PMTEN</b>	ANNUAL	BLDG4	IST	1.28935	436049.59	4664995.5	1518.97	1 YRS	AgBRZ_03.SFC	12	13	4374
	AERMOD	BRZ_03_PMTEN.USF	PMTEN	ANNUAL	TPFUG	1ST	0.58867			1518.97	1 YRS	AgBRZ_03.SFC	12	13	4374
	AERMOD	BRZ_03_PMTEN.USF	PMTEN	24-HR	ALL	1ST	44.84685		4665043.5	1518.86	3020824	AgBRZ_03.SFC	12	13	4374
	AERMOD	BRZ_03_PMTEN.USF	PMTEN	24-HR	ALL	2ND	43.39149		4665043.5	1518.86	3011724	AgBRZ_03.SFC	12	13	4374
	AERMOD	BRZ_03_PMTEN.USF	PMTEN	24-HR	BGH1	1ST	4.01878	436450	4665400		3092924	AgBRZ_03.SFC	12	13	4374
	AERMOD	BRZ_03_PMTEN.USF	PMTEN	24-HR	BGH1	2ND	2.71308	436550	4665550	1592.06		AgBRZ_03.SFC	12	13	4374
	AERMOD	BRZ_03_PMTEN.USF	PMTEN	24-HR	BGH2	1ST	1.71444	436440,69	4665349		3092924	AgBRZ_03.SFC	12	13	4374
	AERMOD	BRZ_03_PMTEN.USF	PMTEN	24-HR 24-HR	BGH2 BGH3	2ND 1ST	1.28087 5.63923	436550 435515.69	4665500 4665624	1569.81	3120824 3020524	AgBRZ_03.SFC AgBRZ_03.SFC	12 12	13 13	4374 4374
	AERMOD AERMOD	BRZ_03_PMTEN.USF BRZ_03_PMTEN.USF	PMTEN PMTEN	24-HR	BGH3	2ND	5.08788	435515.69	4665043.5		3011724	AgBRZ_03.SFC	12	13	4374
	AERMOD	BRZ 03 PMTEN.USF	PMTEN	24-HR	BGH4	1ST	1.93286	436440.69	4665299	1580.53		AgBRZ_03.SFC	12	13	4374
	AERMOD	BRZ 03 PMTEN.USF	PMTEN	24-HR	BGH4	2ND	1.89146	436550	4665500		3100524	AgBRZ 03.SFC	12	13	4374
	AERMOD	BRZ 03 PMTEN.USF	PMTEN	24-HR	BGH5	1ST	3.67216	436550	4665450		3100524	AgBRZ_03.SFC	12	13	4374
	AERMOD	BRZ_03_PMTEN.USF	PMTEN	24-HR	BGH5	2ND	2.66836	436500	4665500		3092224	AgBRZ_03.SFC	12	13	4374
	AERMOD	BRZ_03_PMTEN.USF	PMTEN	24-HR	BGH6	1ST	2.27823	436450	4665400	1584.51	3092924	AgBRZ_03.SFC	12	13	4374
	AERMOD	BRZ_03_PMTEN.USF	PMTEN	24-HR	BGH6	2ND	1.84212	435531.81	4665660.5	1577.78		AgBRZ_03.SFC	12	13	4374
	AERMOD	BRZ_03_PMTEN.USF	<b>PMTEN</b>	24-HR	JCR1	IST	1.49953	435490.69	4665674	1576.1	3020524	AgBRZ_03.SFC	12	13	4374
	AERMOD	BRZ_03_PMTEN.USF	PMTEN	24-HR	JCR1	2ND	1.04742	435515.69	4665649	1575.24		AgBRZ_03.SFC	12	13	4374
	AERMOD	BRZ_03_PMTEN.USF	PMTEN	24-HR	BLDG1		5.95223	435916.59	4665043.5		3020824	AgBRZ_03.SFC	12	13	4374
	AERMOD	BRZ_03_PMTEN.USF	PMTEN	24-HR	BLDGI		5.65766	435916.59	4665043.5	1518.86	3011724	AgBRZ_03.SFC	12	13	4374
	AERMOD	BRZ_03_PMTEN.USF	PMTEN	24-HR	BLDG2		2.17674	435465.69	4665649		3010724	AgBRZ_03.SFC	12	13	4374
	AERMOD	BRZ_03_PMTEN.USF	PMTEN	24-HR	BLDG2		1.94367	435916.59	4665043.5	1518.86	3011724	AgBRZ_03.SFC	12	13	4374
	AERMOD	BRZ_03_PMTEN.USF	PMTEN	24-HR		IST	7.48342		4665614	1564.99	3020524	AgBRZ_03.SFC	12	13	4374 4374
	AERMOD	BRZ_03_PMTEN.USF	PMTEN	24-HR		2ND	6.71257		4665032.5	1519.04	3011724	AgBRZ_03.SFC	12	13	4374
	AERMOD	BRZ_03_PMTEN.USF	PMTEN	24-HR		1ST		435916.59	4665043.5 4665032.5	1518.86 1519.04	3020824 3011724	AgBRZ_03.SFC AgBRZ_03.SFC	12 12	13 . 13	4374
	AERMOD AERMOD	BRZ_03_PMTEN.USF BRZ_03_PMTEN.USF	PMTEN PMTEN	24-HR 24-HR	BLDG4 TPFUG		6.36733	435937.41 436074.41	4664994.5	1520.04	3020524	AgBRZ 03.SFC	12	13	4374
	AERMOD	BRZ_03_PMTEN.USF	PMTEN	24-HR 24-HR	TPFUG		6.18054	435895.69	4665055	1518.83		AgBRZ 03.SFC	12	13	4374
	Model	File	Pol	Average	Group	Rank	Conc.	433893.09 East(X)	North(Y)	Elev	Time	Met File	Sources	Groups	Rec.
	AERMOD	BRZ_87 CO.USF	CO	1-HR	ALL	IST	2.54258	437000	4665900		87011704	BRZ 87.SFC	1	2	4374
	AERMOD	BRZ 87 CO.USF	co	1-HR	ALL	2ND	2.54022	437000	4665900		87011709	BRZ 87.SFC	1	2	4374
	AERMOD	BRZ_87_CO.USF	co	1-HR	BGH2	IST	2.54258	437000	4665900		87011704	BRZ_87.SFC	1	2	4374
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Medical   Pile														
APERIOD   BELL PLOUSE   CO	Model	File	Pol	Average	Group	Rank	Conc.	East(X)	North(Y)	Elev Time	Met File	Sources	Grouns	Rec.
ABBAILON   BELF   FOLKS   CO   SHE   Belf   SHE   SH				·····										
ABBACKO   BEZ_F_COUNF   CO														
APENDOON   SEC. F. COLIFE   COL   1-78   ALI   ST   2-988   4-970   4-6690   1-970   4-970														
APERMON   REZ_		Mr									um,			
AFEMON   SEC. 86 (COLSE)											***			
AFEMACO   SEZ, B. COUSE   CO   1-156   AFEM   AFEM   ASSAMPT   ASSAMPT   ASSAMPT   ASSAMPT   AFEM   AFEM   AFEM   AFEM   ASSAMPT   ASS											ou.			
AERMOND   BIEL   BE   COLURS   CO. S														
AERMOND 1912, 18, COLIST CO 8-1416 ALI, 2010 36022 45590131 4655915 5112 528901301 4812, EAST C 1 2 474 AERMOND 1912, 18, COLIST CO 1-1416 1912 170 7110 51002 4559013 405091 5172, 88 2010031 182, EAST C 1 2 474 AERMOND 1912, 19, COLIST CO 1-1416 1912 170 2110 2110 2110 2110 2110 2110 211														
ABEMOND   BEZ. SE COLUSE   CO   S-HIR   BOHZ   EMPT   27H   648-09   448-09   1972-26   881-200   1072-26   881-200   1072-26   881-200   1072-26   881-200   1072-26   881-200   1072-26   881-200   1072-26   1072-2											444			
ABEMOND   BEZ 86 COLSF   CO   1-148												-		
AERMON   BEZ   90 COUSE   CO   1-HR   ALL   270   2-106   3-107   3-							0.36622		4665403.5				2	4374
AERMOND   BEZ   9 COLISF   CO   1-HR   BGHZ   ET   2-1535   47700   446909   167-18   902-1249   2872   902-1249   2872   475-1249   287												-		
Ale No														
AERMOD   BIZ, 90 COLIST   CO														
AERMOD   BEZ, 39 COUSE   CO												_		
AREMOND   BIZ_90_COURS   CO   1-HIR   ALI   15T   0.55797   157900   4665421   1572.0   1572.0   1572.0   1   2   4744   1574.0   1572.0   1   2   4744   1572.0   1   2   4744   1572.0   1   2   4744   1572.0   1   2   4744   1572.0   1   2   4744   1572.0   1   2   4744   1572.0   1   2   4744   1572.0   1   2   4744   1572.0   1   2   4744   1572.0   1   2   4744   1572.0   1   2   4744   1572.0   1   2   4744   1572.0   1   2   4744   1   1   1   1   1   1   1   1   1		· ,										1		
AERMOND   BEZ_90 COUSF   CO	AERMOD		CO		BGH2		0.72116		4665449	1544.77 89113008	BRZ_89.SFC	1		
AERMOOD BRZ, 90 COUSP CO 141R BUHZ 15T 23757 437004 466590 1572.36 9100622 BRZ, 90 COUSP CO 141R BUHZ 15T 0.46074 455950 94 465590 1571.58 9100722 BRZ, 90 COUSP CO 441R BUHZ 15T 0.46074 455950 94 465590 1571.58 9100722 BRZ, 90 COUSP CO 441R BUHZ 15T 0.46074 455950 94 465590 1575.68 9100200 BRZ, 90 COUSP CO 441R BUHZ 15T 0.46074 455950 94 465590 1575.68 9100200 BRZ, 90 COUSP CO 441R BUHZ 15T 0.46074 455950 94 465590 1575.68 9100200 BRZ, 90 COUSP CO 144R BUHZ 15T 0.46074 455950 94 465590 1575.69 9100210 BRZ, 90 COUSP CO 144R BUHZ 15T 0.46074 455950 94 465590 1575.69 9100210 BRZ, 90 COUSP CO 144R BUHZ 15T 0.46074 455950 94 465590 1575.69 9100210 BRZ, 90 SPC C 1 2 474 ABEMOOD BRZ, 91 COUSP CO 144R BUHZ 15T 0.46074 45690 465570 155.69 9100210 BRZ, 91 SPC C 1 44R BUHZ 15T 0.46074 45690 465570 155.69 9100210 BRZ, 91 SPC C 1 474 ABEMOOD BRZ, 91 COUSP CO 444R BUHZ 15T 0.46084 456900 465570 155.69 9100210 BRZ, 91 SPC C 1 474 ABEMOOD BRZ, 91 COUSP CO 444R BUHZ 15T 0.46084 456900 465570 155.69 9100210 BRZ, 91 SPC C 1 474 ABEMOOD BRZ, 91 COUSP CO 444R BUHZ 15T 0.46084 456900 465570 155.69 9100210 BRZ, 91 SPC C 1 474 ABEMOOD BRZ, 91 COUSP CO 444R BUHZ 15T 0.46084 45590 456904 465570 155.69 91002100 BRZ, 91 SPC C 1 474 ABEMOOD BRZ, 91 COUSP CO 444R BUHZ 15T 1.77114 456600 465550 158010 BRZ, 91 SPC C 1 4 7 4 7 4 4 7 4 4 7 4 4 7 4 4 4 4 4 4											446			
AERMOO   BIZ, 90 COLISP   CO   1-Hig   Boff2   237   2-37557   373000   465590   157.25   9105220   BIZ, 90 COLISP   CO   8-Hig   Boff2   239   2-3516   45559.9   465557   151.45   9002208   BIZ, 90 SEC   1   2   4374   425500   245500   455500											****			
AREMON   BIZ_90 COLISF   CO											part .			
ABEMOD BIKZ_90_COUSF CO 8-HR MAIL 2ND 0.32577 43556.59 465544 1532.66 90022308 BIKZ_90_SCC 1 2 4374 AREMOD BIKZ_90_COUSF CO 8-HR BOHIZ 1ST 0.46937 43556.59 465555 91023508 BIKZ_90_SCC 1 2 4374 AREMOD BIKZ_90_COUSF CO 1-HR ALL 1ST 2.46649 4806004 465579 1555.56 9102101 BIKZ_91_SCC 1 2 4374 AREMOD BIKZ_91_COUSF CO 1-HR ALL 1ST 2.46649 4806004 465579 1555.56 9102101 BIKZ_91_SCC 1 2 4374 AREMOD BIKZ_91_COUSF CO 1-HR BOHIZ 1ST 2.46649 4806004 465579 1555.56 9102101 BIKZ_91_SCC 1 2 4374 AREMOD BIKZ_91_COUSF CO 1-HR BOHIZ 1ST 2.46649 4806004 465579 1555.56 9102101 BIKZ_91_SCC 1 2 4374 AREMOD BIKZ_91_COUSF CO 1-HR BOHIZ 1ST 2.46649 4806004 465579 1555.56 9102101 BIKZ_91_SCC 1 2 4374 AREMOD BIKZ_91_COUSF CO 1-HR BOHIZ 1ST 0.46955 43554.59 465614 154.09 9101008 BIKZ_91_SCC 1 2 4374 AREMOD BIKZ_91_COUSF CO 8-HR BOHIZ 1ST 0.49855 43554.59 465614 154.09 9101008 BIKZ_91_SCC 1 2 4374 AREMOD BIKZ_91_COUSF CO 8-HR BOHIZ 1ST 0.49855 43554.59 465614 154.09 9101008 BIKZ_91_SCC 1 2 4374 AREMOD BIKZ_91_COUSF CO 8-HR BOHIZ 1ST 0.49855 43554.59 465614 1564.99 9101008 BIKZ_91_SCC 1 2 4374 AREMOD BIKZ_91_COUSF CO 1-HR ALL 1ST 0.48060 465550 1589.16 3000107 AREMOD BIKZ_91_SCC 1 1 2 4374 AREMOD BIKZ_91_COUSF CO 1-HR ALL 1ST 0.48660 465550 1589.16 3000107 AREMOD BIKZ_91_SCC 1 1 2 4374 AREMOD BIKZ_91_COUSF CO 1-HR BOHIZ 1ST 0.49856 435640 465550 1589.16 3000107 AREMOD BIKZ_91_SCC 1 1 2 4374 AREMOD BIKZ_91_COUSF CO 1-HR BOHIZ 1ST 0.49856 435640 465550 1589.16 3000107 AREMOD BIKZ_91_SCC 1 1 2 4374 AREMOD BIKZ_91_COUSF CO 1-HR BOHIZ 1ST 0.49860 465550 1589.16 3000107 AREMOD BIKZ_91_SCC 1 1 2 4374 AREMOD BIKZ_91_COUSF CO 1-HR BOHIZ 1ST 0.49860 465550 1589.16 3000107 AREMOD BIKZ_91_SCC 1 1 2 4374 AREMOD BIKZ_91_COUSF CO 1-HR BOHIZ 1ST 0.4986 480540 465550 1589.16 3000107 AREMOD BIKZ_91_SCC 1 1 2 4374 AREMOD BIKZ_91_SCU SIN 0.0014 AREMOD BIKZ_91_SCC 1 2 4374 AREMOD BIKZ_91_SCU SIN 0.0014 AREMOD BIKZ														
AERMOOD BRZ_9 COUSF CO 8-HR BOIL2 ST 0-49374 25559.59 465545 1554.65 9002230 BRZ_9 COUSF CO 1-HR ALL ST 0-40540 456900 465750 1565.56 9002310 BRZ_9 COUSF CO 1-HR ALL ST 0-40540 456900 465750 1565.56 91012319 BRZ_9 LSC 1 2 4374 AERMOOD BRZ_9 LOUSF CO 1-HR BOIL2 ST 2-56640 456900 465750 1565.56 91012319 BRZ_9 LSC 1 2 4374 AERMOOD BRZ_9 LOUSF CO 1-HR BOIL2 ST 2-56640 456900 465750 1565.56 91012319 BRZ_9 LSC 1 2 4374 AERMOOD BRZ_9 LOUSF CO 1-HR BOIL2 ST 2-56640 456900 465750 1565.56 91012319 BRZ_9 LSC 1 2 4374 AERMOOD BRZ_9 LOUSF CO 3-HR BOIL2 ST 2-56440 456900 465750 1565.56 91012319 BRZ_9 LSC 1 2 4374 AERMOOD BRZ_9 LOUSF CO 3-HR BOIL2 ST 2-56440 456900 465750 1565.56 91012319 BRZ_9 LSC 1 2 4374 AERMOOD BRZ_9 LOUSF CO 3-HR BOIL2 ST 2-56440 456900 465750 1565.56 91012319 BRZ_9 LSC 1 2 4374 AERMOOD BRZ_9 LOUSF CO 3-HR BOIL2 ST 2-56440 456900 465750 1565.56 91012319 BRZ_9 LSC 1 2 4374 AERMOOD BRZ_9 LOUSF CO 3-HR BOIL2 ST 2-56440 456900 465501 1564.99 91010368 BRZ_9 LSC 1 2 4374 AERMOOD BRZ_9 LOUSF CO 3-HR BOIL2 ST 2-56440 456900 465501 1564.99 9101036 BRZ_9 LSC 1 2 4374 AERMOOD BRZ_0 LOUSF CO 1-HR BOIL2 ST 1-7714 456600 465501 1581.61 910100 BRZ_9 LSC 1 2 4374 AERMOOD BRZ_0 LSC 0LSF CO 1-HR BOIL2 ST 1-7714 456600 465501 1581.61 910000 AERME BRZ_0 LSC 1 2 4374 AERMOOD BRZ_0 LSC 0LSF CO 1-HR BOIL2 ST 1-7714 456600 465501 1581.61 9100000 AERME BRZ_0 LSC 1 2 4374 AERMOOD BRZ_0 LSC 0LSF CO 1-HR BOIL2 ST 1-7714 456600 465501 1581.61 9100000 AERME BRZ_0 LSC CUSF CO 1-HR BOIL2 ST 1-7714 456600 465501 1581.61 9100000 AERME BRZ_0 LSC CUSF CO 1-HR BOIL2 ST 1-7714 456000 465501 1581.61 9100000 AERME BRZ_0 LSC CUSF CO 1-HR BOIL2 ST 1-7714 456000 465500 1581.61 9100000 AERME BRZ_0 LSC CUSF CO 1-HR BOIL2 ST 1-7714 456000 465500 1581.61 9100000 AERME BRZ_0 LSC CUSF CO 1-HR BOIL2 ST 1-7714 456000 465500 1581.61 9100000 AERME BRZ_0 LSC CUSF CO 1-HR BOIL2 ST 1-7714 456000 465500 1581.61 9100000 AERME BRZ_0 LSC CUSF CO 1-HR BOIL2 ST 1-7714 456000 465500 1581.61 9100000 AERME BRZ_0 LSC CUSF CO 1-HR BOIL2 ST 1-7714 456000 465500 15891.61	AERMOD		CO	8-HR	ALL	1ST	0.46937	435559.59	4665567		- Auto-	1	2	4374
AREMOD 18 18Z 9   COUISF CO 1-14 ALL 18-12 ALG-19 A														
AERMOO												-		
AERMOOD   BRZ 9   COUISF   CO   LHR   BIGH   2572   24664   466970   466975   1655.99   912/1010   BRZ 9   1572   1   2   4734   AERMOOD   BRZ 9   COUISF   CO   LHR   BIGH   2572   24664   466900   466975   1655.99   912/1010   BRZ 9   1572   1   2   4734   AERMOOD   BRZ 9   COUISF   CO   8-HR   ALL   1571   0.4985   34655.69   466561   1564.99   910/1010   BRZ 9   1572   1   2   4734   AERMOOD   BRZ 9   COUISF   CO   8-HR   ALL   2571   0.4985   34955.69   466561   1564.99   910/1010   BRZ 9   1572   1   2   4734   AERMOOD   BRZ 9   COUISF   CO   8-HR   BIGH   2571   0.4985   34955.69   466561   1564.99   910/1010   BRZ 9   1572   1   2   4734   AERMOOD   BRZ 9   COUISF   CO   8-HR   BIGH   2571   77714   456600   466550   1581.00   150/1000   15											244			
AERMOD   BRZ, 9  COUSF   CO														
AERMOID   BEZ_91_COLUSF   CO   S-HIR   ALL   ST   0.4985   43554.59   466541   1564.99   91013008   BEZ_91.57C   1   2   4374	AERMOD										***	1		
AERMOD   BEZ_91_COLISF   CO														
AERMOD   BRZ 91 COLUSF   CO											4.00			
Mode  File											-	-		
AERMOD   BRZ, 93 COUSF   CO														
AERMOD BRZ_93 COUSF CO 1-HR BR		File		-	-								-	
AERMOD BRZ, 93 COUSE CO I-HR BDH2 2ND IA-671 438600 466550 1890.16 300007 AgBRZ, 93 SPC 1 2 4374 AERMOD BRZ, 93 COUSE CO 8-HR ALI, 2ND 28586 465550 1893.6 3009020 AgBRZ, 93 SPC 1 2 4374 AERMOD BRZ, 93 COUSE CO 8-HR ALI, 2ND 28586 46550 466550 1893.6 3009020 AgBRZ, 93 SPC 1 2 4374 AERMOD BRZ, 93 COUSE CO 8-HR BDH2 2ND 40286 466406 4665349 1858.08 3009020 AgBRZ, 93 SPC 1 2 4374 AERMOD BRZ, 93 COUSE CO 8-HR BDH2 2ND 60286 466550 1808.04 3009020 AgBRZ, 93 SPC 1 2 4374 AERMOD BRZ, 93 SOUUSE CO 8-HR BDH2 2ND 60286 466550 1808.04 3009020 AgBRZ, 93 SPC 1 2 2 4374 AERMOD BRZ, 93 SOUUSE SO2 ANNUAL ALI, 1ST 0.0009 4355456 466550 1808.04 3092208 AgBRZ, 93 SPC 1 2 2 4374 AERMOD BRZ, 93 SOUUSE SO2 ANNUAL ALI, 1ST 0.0009 4355456 466561 1664.99 1YRS BRZ, 93 SPC 1 2 2 4374 AERMOD BRZ, 93 SOUUSE SO2 3-HR ALI, 2ND 0.0009 4355456 466550 1808.04 3092208 AgBRZ, 93 SPC 1 2 2 4374 AERMOD BRZ, 93 SOUUSE SO2 3-HR ALI, 2ND 0.0009 4355456 466561 1664.99 1YRS BRZ, 93 SPC 1 2 2 4374 AERMOD BRZ, 93 SOUUSE SO2 3-HR ALI, 2ND 0.0009 435545 69 466550 1808.8 8701170 BRZ, 83 SPC 1 2 2 4374 AERMOD BRZ, 93 SOUUSE SO2 3-HR BDH2 2ND 0.00094 466590 1867.18 8701170 BRZ, 83 SPC 1 2 2 4374 AERMOD BRZ, 93 SOUUSE SO2 3-HR BDH2 2ND 0.00094 435540 8000 1867.18 8701170 BRZ, 83 SPC 1 2 2 4374 AERMOD BRZ, 93 SOUUSE SO2 2-HR BDH2 2ND 0.00094 466590 1867.18 8701170 BRZ, 83 SPC 1 2 2 4374 AERMOD BRZ, 93 SOUUSE SO2 2-HR BDH2 2ND 0.00094 4355013 466590 1867.18 8701170 BRZ, 83 SPC 1 2 2 4374 AERMOD BRZ, 83 SOUUSE SO2 2-HR BDH2 2ND 0.00094 455001 1867.18 8701170 BRZ, 83 SPC 1 2 2 4374 AERMOD BRZ, 83 SOUUSE SO2 3-HR BDH2 2ND 0.00094 455001 1867.18 8701170 BRZ, 83 SPC 1 2 2 4374 AERMOD BRZ, 83 SOUUSE SO2 3-HR BDH2 2ND 0.00094 455001 466590 1867.18 8701170 BRZ, 83 SPC 1 2 2 4374 AERMOD BRZ, 83 SOUUSE SO2 3-HR BDH2 2ND 0.00094 455001 466590 1867.18 8701170 BRZ, 83 SPC 1 2 2 4374 AERMOD BRZ, 83 SOUUSE SO2 3-HR BDH2 2ND 0.00094 455001 466590 1872.8 8701100 BRZ, 83 SPC 1 2 2 4374 AERMOD BRZ, 83 SOUUSE SO2 3-HR BDH2 2ND 0.00094 455000 186500 1872.8 8812030 BRZ, 83 SPC 1 2 2 43														
AERMOD BRZ_93 COLUSF CO 8-HR ALL ST 0.4266 3464609 4665590 1589.16 3090107 AgBRZ_03.5FC 1 2 4374 AERMOD BRZ_93 COLUSF CO 8-HR ALL ST 0.4266 4364409 4665590 1580.54 3092208 AgBRZ_03.5FC 1 2 4374 AERMOD BRZ_93 COLUSF CO 8-HR BLC ST 0.4266 4364409 4665590 1580.54 3092208 AgBRZ_03.5FC 1 2 4374 AERMOD BRZ_93 COLUSF CO 8-HR BLC ST 0.4266 4364409 4665590 1580.54 3092208 AgBRZ_03.5FC 1 2 4374 AERMOD BRZ_93 COLUSF CO 8-HR BLC ST 0.4266 4364409 4665590 1580.54 3092208 AgBRZ_03.5FC 1 2 4374 AERMOD BRZ_93 COLUSF CO 8-HR BLC ST 0.4266 4364409 4665590 1580.54 3092208 AgBRZ_03.5FC 1 2 4374 AERMOD BRZ_93 SOLUSF SO2 ANNUAL ALL ST 0.0009 435545.96 466514 1564.99 1VRS BRZ_93.5FC 1 2 4374 AERMOD BRZ_93 SOLUSF SO2 3-HR ALL ST 0.00894 437000 4665900 1567.18 87011706 BRZ_93 SOLUSF SO2 3-HR ALL ST 0.00894 437000 4665900 1567.18 87011706 BRZ_93 SOLUSF SO2 3-HR ALL ST 0.00894 437000 4665900 1567.18 87011706 BRZ_93 SOLUSF SO2 3-HR BCL ST 0.50894 437000 4665900 1567.18 87011706 BRZ_93 SOLUSF SO2 3-HR BCL ST 0.50894 437000 4665900 1567.18 87011706 BRZ_93 SOLUSF SO2 3-HR BCL ST 0.50894 437000 4665900 1567.18 87011706 BRZ_93 SOLUSF SO2 3-HR BCL ST 0.50894 437000 4665900 1567.18 87011706 BRZ_93 SOLUSF SO2 3-HR BCL ST 0.50894 437000 4665900 1567.18 87011706 BRZ_93 SOLUSF SO2 3-HR BCL ST 0.50894 437000 4665900 1567.18 87011706 BRZ_93 SOLUSF SO2 3-HR BCL ST 0.50894 437000 4665900 1567.18 87011706 BRZ_93 SOLUSF SO2 3-HR BCL ST 0.50894 437000 4665900 1567.18 87011706 BRZ_93 SOLUSF SO2 3-HR BCL ST 0.50894 437000 4665900 1567.18 87011706 BRZ_93 SOLUSF SO2 3-HR BCL ST 0.50894 437000 4665900 1567.18 87011706 BRZ_93 SOLUSF SO 2 3-HR BCL ST 0.50894 437000 4665900 1567.18 87011706 BRZ_93 SOLUSF SO 2 3-HR BCL ST 0.50894 437000 4665900 1567.18 87011706 BRZ_93 SOLUSF SO 2 3-HR BCL ST 0.50894 43700 4665900 1567.18 87011706 BRZ_93 SOLUSF SO 2 3-HR BCL ST 0.50894 43700 4665900 1567.18 87011706 BRZ_93 SOLUSF SO 2 3-HR BCL ST 0.50894 466590 1567.18 87011706 BRZ_93 SOLUSF SO 2 3-HR BCL ST 0.50894 436500 1566500 1577.88 87011706 BRZ_93 SOLUSF SO 2 3-HR BCL ST 0.50														
AERMOD BRZ 93 COLUSF CO 8-HR ALL 1ST 0.42086 436-440.9 466-5349 1385.08 309298 ÅgBRZ 0.5 SFC 1 2 4374 AERMOD BRZ 93 COLUSF CO 8-HR BGHZ 1ST 0.42086 436-460.9 466-5349 1585.08 3092908 ÅgBRZ 0.3 SFC 1 2 4374 AERMOD BRZ 93 COLUSF CO 8-HR BGHZ 1ST 0.42086 436-530 466-5500 1580.4 3092208 ÅgBRZ 0.3 SFC 1 2 4374 AERMOD BRZ 95 SOLUSF SOZ ANNUAL ALL 1ST 0.00090 435-54-56 466-551 1580.4 3092908 ÅgBRZ 0.3 SFC 1 2 4374 AERMOD BRZ 57 SOZ USF SOZ ANNUAL ALL 1ST 0.00090 435-54-56 466-551 1580.4 3092208 ÅgBRZ 0.3 SFC 1 2 4374 AERMOD BRZ 57 SOZ USF SOZ ANNUAL ALL 1ST 0.00090 435-54-56 466-561 1564.9 1 YRS BRZ 87.5 SFC 1 2 4374 AERMOD BRZ 57 SOZ USF SOZ 3-HR ALL 2ND 0.00893 437000 466-5900 1567.18 87011709 BRZ 57.5 SFC 1 2 4374 AERMOD BRZ 57 SOZ USF SOZ 3-HR BGHZ 1ST 0.00894 437000 466-5900 1567.18 87011709 BRZ 57.5 SFC 1 2 4374 AERMOD BRZ 57 SOZ USF SOZ 3-HR BGHZ 1ST 0.00894 437000 466-5900 1567.18 87011709 BRZ 57.5 SFC 1 2 4374 AERMOD BRZ 57 SOZ USF SOZ 2-HR BGHZ 1ST 0.00298 437000 466-5900 1567.18 87011709 BRZ 57.5 SFC 1 2 4374 AERMOD BRZ 57 SOZ USF SOZ 2-HR BGHZ 1ST 0.00298 437000 466-5900 1567.18 87011709 BRZ 57.5 SFC 1 2 4374 AERMOD BRZ 57 SOZ USF SOZ 2-HR BGHZ 1ST 0.00298 437000 466-5900 1567.18 87011709 BRZ 57.5 SFC 1 2 4374 AERMOD BRZ 57 SOZ USF SOZ 2-HR BGHZ 1ST 0.00298 437000 466-5900 1567.18 87011704 BRZ 57.5 SFC 1 2 4374 AERMOD BRZ 58 SOZ USF SOZ 2-HR BGHZ 1ST 0.00298 437000 466-5900 1567.18 87011704 BRZ 57.5 SFC 1 2 4374 AERMOD BRZ 58 SOZ USF SOZ 2-HR BGHZ 1ST 0.00298 437000 466-5900 1567.18 87011704 BRZ 57.5 SFC 1 2 4374 AERMOD BRZ 58 SOZ USF SOZ 3-HR BGHZ 1ST 0.00298 437000 466-5900 1567.18 87011704 BRZ 57.5 SFC 1 2 4374 AERMOD BRZ 58 SOZ USF SOZ 3-HR BGHZ 1ST 0.00298 437000 466-5900 1567.18 87011704 BRZ 58.5 SFC 1 2 4374 AERMOD BRZ 58 SOZ USF SOZ 3-HR BGHZ 1ST 0.00298 435000 466-5000 1567.18 87011704 BRZ 58.5 SFC 1 2 4374 AERMOD BRZ 58 SOZ USF SOZ 3-HR BGHZ 1ST 0.00298 435000 466-5000 1567.18 87011704 BRZ 58.5 SFC 1 2 4374 AERMOD BRZ 58 SOZ USF SOZ 3-HR BGHZ 1ST 0.00298 435000 466-5000 1567.18 87011704 BRZ 58.5														
AERMOD   BRZ_07_COUSF   CO														
ABRAMOD   BRZ_87_SOZUSF   SOZ   ANNUAL   ALL   IST   O.0009   435545.69   4665500   180.54   3092208   ABRZ_03.5FC   1   2   4374	AERMOD													
AERMOD   BRZ 87 SOZ USF   SOZ   ANNUAL   ALL   IST   0.00099   435545.69   4665614   1664.99   1 YRS   BRZ 87 SFC   1   2   4374														
AERMOD BRZ 87 SO2 USF SO2 ANNUAL BGH2 IST 0.00009 435545.69 4665614 1564.99 1 YRS BRZ 87.SFC 1 2 4374 AERMOD BRZ 87 SO2 USF SO2 3-HR ALL IST 0.00089 435545.69 4665614 1564.99 1 YRS BRZ 87.SFC 1 2 4374 AERMOD BRZ 87 SO2 USF SO2 3-HR ALL IST 0.00893 437000 466590 1567.18 87011706 BRZ 87.SFC 1 2 4374 AERMOD BRZ 87 SO2 USF SO2 3-HR BGH2 IST 0.00893 437000 466590 1567.18 87011706 BRZ 87.SFC 1 2 4374 AERMOD BRZ 87 SO2 USF SO2 3-HR BGH2 IST 0.00893 437000 466590 1567.18 87011706 BRZ 87.SFC 1 2 4374 AERMOD BRZ 87 SO2 USF SO2 3-HR BGH2 IST 0.00894 437000 466590 1567.18 87011706 BRZ 87.SFC 1 2 4374 AERMOD BRZ 87 SO2 USF SO2 2-HR BGH2 IST 0.00894 437000 466590 1567.18 87011706 BRZ 87.SFC 1 2 4374 AERMOD BRZ 87 SO2 USF SO2 2-HR BGH2 IST 0.00894 437000 466590 1567.18 87011706 BRZ 87.SFC 1 2 4374 AERMOD BRZ 87 SO2 USF SO2 2-HR BGH2 IST 0.00894 437000 466590 1567.18 87011706 BRZ 87.SFC 1 2 4374 AERMOD BRZ 87 SO2 USF SO2 2-HR BGH2 IST 0.00298 437000 466590 1567.18 87011724 BRZ 87.SFC 1 2 4374 AERMOD BRZ 87 SO2 USF SO2 2-HR BGH2 IST 0.00298 437000 466590 1567.18 87011724 BRZ 87.SFC 1 2 4374 AERMOD BRZ 88 SO2 USF SO2 2-HR BGH2 IST 0.00694 435601.31 4665427 1545.29 87011024 BRZ 87.SFC 1 2 4374 AERMOD BRZ 88 SO2 USF SO2 3-HR BGH2 IST 0.00694 435601.31 4665427 1545.29 87011024 BRZ 87.SFC 1 2 4374 AERMOD BRZ 88 SO2 USF SO2 3-HR BGH2 IST 0.00694 435601.31 4665427 1545.29 87011024 BRZ 87.SFC 1 2 4374 AERMOD BRZ 88 SO2 USF SO2 3-HR ALL IST 0.00094 35531.81 4665600.5 1577.78 1 YRS BRZ 88.SFC 1 2 4374 AERMOD BRZ 88 SO2 USF SO2 3-HR ALL SND 0.00888 436950 466600 1572.36 8120306 BRZ 88.SFC 1 2 4374 AERMOD BRZ 88 SO2 USF SO2 3-HR BGH2 IST 0.0006 435601.31 4665427 1545.29 87011024 BRZ 88.SFC 1 2 4374 AERMOD BRZ 88 SO2 USF SO2 3-HR BGH2 IST 0.0066 436600 1572.36 8120306 BRZ 88.SFC 1 2 4374 AERMOD BRZ 88 SO2 USF SO2 3-HR BGH2 IST 0.0066 436600 1572.36 8120306 BRZ 88.SFC 1 2 4374 AERMOD BRZ 88 SO2 USF SO2 3-HR BGH2 IST 0.0066 436600 1572.36 8120324 BRZ 88.SFC 1 2 4374 AERMOD BRZ 88 SO2 USF SO2 2-HR BGH2 IST 0.0066 436600 1572.36 8120304 BRZ 88.												-		
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AERMOD   BRZ_87_SO2_USF   SO2   3-HR   BGH2   2ND   0.00893   437000   4665900   1567_18   87011709   BRZ_87_SFC   1   2   4374											and a			
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AERMOD BRZ_89_SO2_USF SO2 24-HR BGH2 1ST 0.00247 435590.69 4665449 1544.77 89113024 BRZ_89_SFC 1 2 4374  AERMOD BRZ_89_SO2_USF SO2 24-HR BGH2 2ND 0.0022 435656.59 4665266.5 1522.8 89122324 BRZ_89_SFC 1 2 4374  AERMOD BRZ_90_SO2_USF SO2 ANNUAL ALL 1ST 0.00009 435545.69 4665614 1564.99 1 YRS BRZ_90_SFC 1 2 4374  AERMOD BRZ_90_SO2_USF SO2 ANNUAL BGH2 1ST 0.00009 435545.69 4665614 1564.99 1 YRS BRZ_90_SFC 1 2 4374  AERMOD BRZ_90_SO2_USF SO2 3-HR ALL 1ST 0.0009 435545.69 466500 1567.18 90120724 BRZ_90_SFC 1 2 4374  AERMOD BRZ_90_SO2_USF SO2 3-HR ALL 2ND 0.00837 436950 4666000 1572.36 90100624 BRZ_90_SFC 1 2 4374													2	4374
AERMOD         BRZ 90 SO2 USF         SO2 ANNUAL         ALL         1ST 0.0009         435545.69         4665614         1564.99         1 YRS         BRZ 90.SFC         1         2 4374           AERMOD         BRZ 90 SO2.USF         SO2 ANNUAL BGH2         1ST 0.00009         435545.69         4665614         1564.99         1 YRS         BRZ 90.SFC         1         2 4374           AERMOD         BRZ 90_SO2.USF         SO2 3-HR         ALL         1ST 0.00905         437000         4665900         1567.18         90120724         BRZ 90.SFC         1         2 4374           AERMOD         BRZ 90_SO2.USF         SO2 3-HR         ALL         2ND 0.00837         436950         4666000         1572.36         90100624         BRZ 90.SFC         1         2 4374           AERMOD         BRZ 90_SO2.USF         SO2         3-HR         ALL         2ND 0.00837         436950         4666000         1572.36         90100624         BRZ 90.SFC         1         2 4374	AERMOD	BRZ_89_SO2.USF		24-HR	BGH2						_			
AERMOD         BRZ 90 SO2.USF         SO2         ANNUAL         BGH2         1ST         0.0009         435545.69         4665614         1564.99         1 YRS         BRZ 90.SFC         1         2         4374           AERMOD         BRZ 90 SO2.USF         SO2         3-HR         ALL         1ST         0.00905         437000         4665900         1567.18         90120724         BRZ 90.SFC         1         2         4374           AERMOD         BRZ 90 SO2.USF         SO2         3-HR         ALL         2ND         0.00837         436950         4666000         1572.36         90100624         BRZ 90.SFC         1         2         4374           AERMOD         BRZ 90 SO2.USF         SO2         3-HR         ALL         2ND         0.00837         436950         4666000         1572.36         90100624         BRZ 90.SFC         1         2         4374														
AERMOD BRZ 90 SO2.USF SO2 3-HR ALL 1ST 0.00905 437000 4665900 1567.18 90120724 BRZ 90.SFC 1 2 4374 AERMOD BRZ 90 SO2.USF SO2 3-HR ALL 2ND 0.00837 436950 4666000 1572.36 90100624 BRZ 90.SFC 1 2 4374														
AERMOD BRZ 90 SO2.USF SO2 3-HR ALL 2ND 0.00837 436950 4666000 1572.36 90100624 BRZ 90.SFC 1 2 4374														
										1567.18 90120724	_	1	2	4374

Model	File	Pol	Average	Group	Rank	Conc.	East(X)	North(Y)	Elev	Time	Met File	Sources	Groups	Rec.
ERMOD	BRZ_90_SO2.USF	SO2	3-HR	BGH2	2ND	0.00837	436950	4666000	1572.36	90100624	BRZ 90.SFC	1	2	4374
ERMOD	BRZ_90_SO2.USF	SO2	24-HR	ALL	1ST	0.00221	435565.69	4665499	1546.19	90122424	BRZ 90.SFC	1	2	4374
ERMOD	BRZ 90 SO2.USF	SO2	24-HR	ALL	2ND	0.00153	435559.59	4665567	1554.85	90123124	BRZ 90.SFC	1	2	4374
ERMOD	BRZ 90 SO2.USF	SO2	24-HR	BGH2	1ST	0.00221	435565.69	4665499		90122424		1	2	4374
ERMOD	BRZ 90 SO2.USF	SO2	24-HR	BGH2	2ND	0.00153	435559.59	4665567		90123124	***	1	2	4374
ERMOD	BRZ 91 SO2.USF	SO2	ANNUAL	ALL	IST	0.00012		4665614	1564.99		BRZ 91.SFC	I	2	4374
ERMOD	BRZ 91 SO2.USF	SO2	ANNUAL	- BGH2	IST	0.00012	435545.69	4665614	1564.99		BRZ 91.SFC	1	2	4374
ERMOD	BRZ 91 SO2.USF	SO2	3-HR	ALL	IST	0.00012	436850	4665750		91100924			2	
											BRZ_91.SFC	1		4374
ERMOD	BRZ_91_SO2.USF	SO2	3-HR	ALL	2ND	0.00867	436900	4665750		91012321	BRZ_91.SFC	1	2	4374
ERMOD	BRZ_91_SO2.USF	SO2	3-HR	BGH2	IST	0.01078	436850	4665750		91100924	BRZ_91.SFC	1	2	4374
ERMOD	BRZ_91_SO2.USF	SO2	3-HR	BGH2	2ND	0.00867	436900	4665750		91012321	BRZ_91.SFC	1	2	4374
ERMOD	BRZ_91_SO2.USF	SO2	24-HR	ALL	IST	0.00277	435590.69	4665449		91012524	BRZ_91.SFC	1	2	4374
ERMOD	BRZ_91_SO2.USF	SO2	24-HR	ALL	2ND	0.00204	435540.69	4665624	1567.34	91010124	BRZ_91.SFC	1	2	4374
ERMOD	BRZ_91_SO2.USF	SO2	24-HR	BGH2	IST	0.00277	435590.69	4665449	1544.77	91012524	BRZ_91.SFC	1	2	4374
ERMOD	BRZ_91_SO2.USF	SO2	24-HR	BGH2	2ND	0.00204	435540.69	4665624	1567.34	91010124	BRZ 91.SFC	1	2	4374
ERMOD	BRZ_03_SO2.USF	SO2	ANNUAL	ALL	1ST	0.00012	436450	4665500	1582.37	1 YRS	AgBRZ 03.SFC	1	2	4374
ERMOD	BRZ 03 SO2.USF	SO2	ANNUAL	BGH2	IST	0.00012	436450	4665500	1582.37	1 YRS	AgBRZ 03.SFC	1	2	4374
ERMOD	BRZ 03 SO2.USF	SO2	3-HR	ALL	1ST	0.00912	436550	4665500		3100506	AgBRZ 03.SFC	1	2	4374
ERMOD	BRZ 03 SO2.USF	SO2	3-HR	ALL	2ND	0.00772	436550	4665500		3092203	AgBRZ 03.SFC	1	2	4374
ERMOD	BRZ 03 SO2.USF	SO2	3-HR	BGH2	1ST	0.00912	436550	4665500		3100506	AgBRZ_03.SFC	í	2	4374
ERMOD	BRZ 03 SO2.USF	SO2	3-HR	BGH2	2ND	0.00772	436550	4665500	1580.54		AgBRZ 03.SFC	1	2	4374
ERMOD	BRZ 03 SO2.USF	SO2	24-HR	ALL	IST	0.00772	436440.69	4665349			•	1		4374
ERMOD ERMOD	BRZ_03_SO2.USF	SO2	24-HR 24-HR		2ND	0.0013			1585.08		AgBRZ_03.SFC		2	
	***			ALL			436550	4665500		3120824	AgBRZ_03.SFC	1 .	. 2	4374
ERMOD	BRZ_03_SO2.USF	SO2	24-HR	BGH2	IST	0.0015	436440.69	4665349	1585.08		AgBRZ_03.SFC	1	2	4374
ERMOD	BRZ_03_SO2.USF	SO2	24-HR	BGH2	2ND	0.00112	436550	4665500	1580.54		AgBRZ_03.SFC	1	2	4374
Model	File	Pol	Average	Group	Rank	Conc.	East(X)	North(Y)	Elev	Time	Met File	Sources	Groups	Rec.
ERMOD	BRZ_87_NO2.USF	NO2	ANNUAL	ALL	IST	0.06579	435545.69	4665614	1564.99	1 YRS	BRZ_87,SFC	1	2	4374
ERMOD	BRZ_87_NO2.USF	NO2	ANNUAL	BGH2	IST	0.06579	435545.69	4665614	1564.99	1 YRS	BRZ_87.SFC	1	2	4374
ERMOD	BRZ_88_NO2.USF	NO2	ANNUAL	ALL	1ST	0.06083	435531.81	4665660.5	1577.78	1 YRS	BRZ_88.SFC	1	2	4374
ERMOD	BRZ_88_NO2.USF	NO2	ANNUAL	BGH2	IST	0.06083	435531.81	4665660.5	1577.78	1 YRS	BRZ 88.SFC	1	2	4374
ERMOD	BRZ 89 NO2.USF	NO2	ANNUAL	ALL	1ST	0.07708	435594.41	4665450.5	1547.56	1 YRS	BRZ 89.SFC	1	2	4374
ERMOD	BRZ 89 NO2.USF	NO2	ANNUAL	BGH2	1ST	0.07708	435594.41	4665450.5	1547.56	1 YRS	BRZ 89.SFC	1	2	4374
ERMOD	BRZ 90 NO2.USF	NO2	ANNUAL	ALL	1ST	0.06037	435545.69	4665614	1564.99	1 YRS	BRZ 90.SFC	1	2	4374
ERMOD	BRZ 90 NO2.USF	NO2	ANNUAL	BGH2	1ST	0.06037	435545.69	4665614	1564.99	1 YRS	BRZ 90.SFC	1	2	4374
ERMOD	BRZ 91 NO2.USF	NO2	ANNUAL	ALL	1ST	0.08297	435545.69	4665614	1564.99	1 YRS	BRZ 91.SFC	î	2	4374
ERMOD	BRZ 91 NO2.USF	NO2	ANNUAL	BGH2	IST	0.08297	435545.69	4665614	1564.99	1 YRS	BRZ 91.SFC	1	2	4374
ERMOD	BRZ 03 NO2.USF	NO2	ANNUAL	ALL	IST	0.08251	436450	4665500	1582.37	1 YRS	AgBRZ 03.SFC	1	2	4374
ERMOD	BRZ 03 NO2.USF	NO2	ANNUAL	BGH2	IST	0.08251	436450	4665500	1582.37	1 YRS	AgBRZ_03.SFC	I	2	4374
Model	File	Pol			Rank	Conc.			Elev	Time	Met File			
			Average	Group			East(X)	North(Y)				Sources	Groups	Rec.
ERMOD	BRZ_87_PB.USF	PB	1-HR	ALL	IST	0.00006	437000	4665900		87011704	BRZ_87.SFC	1	2	4374
ERMOD	BRZ_87_PB.USF	PB	1-HR	BGH2	1ST	0.00006	437000	4665900		87011704	BRZ_87.SFC	1	2	4374
ERMOD	BRZ_88_PB.USF	PB	1-HR	ALL	1ST	0.00006	437000	4666050		88022502	BRZ_88.SFC	1	2	4374
ERMOD	BRZ_88_PB.USF	PB	1-HR	BGH2	1ST	0.00006	437000	4666050		88022502	BRZ_88.SFC	I	2	4374
ERMOD	BRZ_89_PB.USF	PB	1-HR	ALL	1ST	0.00006	437000	4666050		89122405	BRZ_89.SFC	1	2	4374
ERMOD	BRZ_89_PB.USF	PB	1-HR	BGH2	1ST	0.00006	437000	4666050		89122405	BRZ_89.SFC	1	2	4374
ERMOD	BRZ_90_PB.USF	PB	1-HR	ALL	IST	0.00006	437000	4665900	1567.18	90120723	BRZ_90.SFC	1	2	4374
ERMOD	BRZ_90_PB.USF	PB	1-HR	BGH2	1ST	0.00006	437000	4665900	1567.18	90120723	BRZ_90.SFC	1	2	4374
ERMOD	BRZ_91_PB.USF	PB	1-HR	ALL	IST	0.00006	436900	4665750	1565.96	91012319	BRZ 91.SFC	1	2	4374
ERMOD	BRZ 91 PB.USF	PB	1-HR	BGH2	1ST	0.00006	436900	4665750		91012319	BRZ 91.SFC	1	2	4374
ERMOD	BRZ 03 PB.USF	PB	1-HR	ALL	IST	0.00004	436600	4665550		3100605	AgBRZ 03.SFC	î	2	4374
ERMOD	BRZ 03 PB.USF	PB	1-HR	BGH2	1ST	0.00004	436600	4665550		3100605	AgBRZ 03.SFC	1	2	4374
J1111111111111111111111111111111111111	nve of non.	1 1.5	1-111	NOLIZ	101	0.00004	-1JUUUV	-00JJJ0	1303.10	2100002	Agunz_03.6FC	1	2	7374

\*\*\* AERMOD - VERSION 07026 \*\*\*

\*\*\* U S Antimony Bear River Zeolite

\*\*\* Model Executed on 02/13/07 at 11:00:03 \*\*\*

Input File - C:\Clients\U.S. Antimony\MDL 07\BRZ\_87\_91\_PMTEN.DTA

Output File - C:\Clients\U.S. Antimony\MDL 07\BRZ\_87\_91\_PMTEN.LST

Met File - C:\Clients\Met Data\BRZeol\BRZ\_87\_91.SFC

Number of sources -Number of source groups -Number of receptors -

\*\*\* POINT SOURCE DATA \*\*\*

SOURCE ID		EMISSION RATH	Х	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN CA	AP/ EMIS RATE OR SCALAR VARY BY
BGH1 BGH2 BGH3 BGH4 BGH5 BGH6	0 0 0 0 0	0.10092E+00 0.47375E-01 0.64385E-01 0.40067E-01 0.57203E-01 0.66527E-01	436039.0 436039.0 436052.4 436035.4	4666000.5 4665972.0 4665956.0 4665960.0 4665932.5 4665972.5	1562.9	2.21 2.44 6.71 2.74 1.89 6.10	294.26 344.26 294.26 294.26 294.26 294.26	7.71 10.77 0.00 9.11 14.97 17.38	0.69 0.40 0.36 0.38 0.37	YES YES YES YES YES YES	1 ON 1 ON 1 ON 1 ON	10 10 10 10 10 10
				***	VOLUME	SOURCE DAT	ra ***					
SOURCE		EMISSION RATE (GRAMS/SEC)	X	y (METÉRS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)		EMISSION SCALAR V BY		
JCR1 BLDG1 BLDG2 BLDG3 BLDG4 TPFUG	0 0 0 0	0.10080E-01 0.73583E-01 0.21042E-01 0.74465E-01 0.14301E+00 0.91626E-01	436038.9 436026.6 436047.7 436040.9	4666004.0 4665945.5 4665950.0 4665922.0		1.83 4.27 3.05 3.05 3.05 6.10	0.25 1.42 2.98 1.56 3.19 12.76	1.70 3.97 2.84 2.84 2.84 5.67	NO NO NO NO NO			
				*** SOURCE	IDs DEF	INING SOUP	RCE GROUE	PS ***				
GROUP ID					SOU	RCE IDs						
ALL	BGH1 ,	BGH2 , BG	GH3 , E	GH4 , B	GH5 ,	BGH6 ,	JCR1	, BLDG1	, BLDG2	, BLDO	G3 , BLI	OG4 , TPFUG ,
BGH1	BGH1 ,	,										
BGH2	BGH2 ,											
BGH3	BGH3 ,											
BGH4	BGH4											
BGH5	BGH5 ,											
BGH6	BGH6 ,											
JCR1	JCR1 ,											
BLDG1	BLDG1 ,											
BLDG2	BLDG2 ,											
BLDG3	BLDG3 ,											
BLDG4	BLDG4 ,											
TPFUG	TPFUG ,											

#### BRZ\_87\_91\_PMTEN.USF

### \*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

\*\* CONC OF PMTEN IN MICROGRAMS/M\*\*3

GROUP I	D		AVERAGE CON	DATE C (YYMMDDHI	H)	RECEF	PTOR (XR, YR,	ZELEV, ZHI	LL, ZFLAG)	NETWO	
ALL	HIGH	1ST HIGH VALUE	is 65.285	23c ON 8912022	1: AT (	435490.69,	4665624.00,	1565.36,	1892.50,	0.00)	DC
	HIGH	6TH HIGH VALUE	ıs 49.534	64c ON 8902072	1: AT (	435545.69,	4665614.00,	1564.99,	1892.50,	0,00)	DC
BGH1	HIGH	1ST HIGH VALUE	is 6.523	00c ON 9112222	1: AT (	435490.69,	4665749.00,	1584.21,	1892.50,	0.00)	DC
	HIGH	6TH HIGH VALUE	IS 4.762	33c ON 8801252	4: AT (	435490.69,	4665724.00,	1583.01,	1892.50,	0.00)	DC
BGH2	HIGH	1ST HIGH VALUE	IS 4.112	0.8c ON 8812032	4: AT (	436950.00,	4666000.00,	1572.36,	1892.50,	0.00)	DC
	HIGH	6TH HIGH VALUE	IS 1.946	03c ON 8911282	4: AT (	435545.69,	4665614.00,	1564.99,	1892.50,	0.00)	DC
BGH3	HIGH	1ST HIGH VALUE	is 6.991	74c ON 89122524	4: AT (	436850.00,	4665700.00,	1566.99,	1892.50,	0.00)	DC
	HIGH	6TH HIGH VALUE	IS 4.260	35c ON 8902072	4: AT (	435515.69,	4665624.00,	1569.81,	1892.50,	0.00}	DC
BGH4	HIGH	1ST HIGH VALUE	IS 3.831	42c ON 88121224	1: AT (	435540.69,	4665624.00,	1567.34,	1892.50,	0.00)	DC .
	HIGH	6TH HIGH VALUE	is 2.513	50c ON 88120324	1: AT (	435538.81,	4665637.50,	1572.43,	1892.50,	0.00)	DC
BGH5	HIGH	1ST HIGH VALUE	is 5.142	45c ON 8912022	4: AT (	435538.81,	4665637.50,	1572.43,	1892.50,	0.00)	DC
	HIGH	6TH HIGH VALUE	is 3.782	96c ON 88121624	1: AT (	435540.69,	4665624.00,	-1567.34,	1892.50,	0.00)	DC
BGH6	HIGH	1ST HIGH VALUE	IS 3.999	12c ON 91012524	4: AT (	435565.69,	4665474.00,	1543.63,	1892.50,	0.00)	DC
	HIGH	6TH HIGH VALUE	IS 2.534	10c ON 8701092	4: AT (	435540.69,	4665624.00,	1567.34,	1892.50,	0.00)	DC
JCR1	HIGH	1ST HIGH VALUE	IS 2.404	56c ON 9101252	1: AT (	435580.50,	4665497.00,	1550.45,	1892.50,	0.00}	DC
	HIGH	6TH HIGH VALUE	IS 1.700	97c ON 91122224	1: AT (	435465.69,	4665724.00,	1572.80,	1892.50,	0.00)	DC
BLDG1	HIGH	1ST HIGH VALUE	9.842	92c ON 91122224	1: AT (	435465.69,	4665724.00,	1572.80,	1892.50,	0.00)	DC
	HIGH	6TH HIGH VALUE	is 6.923	64c ON 9101012	1: AT (	435538.81,	4665637.50,	1572.43,	1892.50,	0.00)	DC
BLDG2	HIGH	1ST HIGH VALUE	IS 4.086	74c ON 89120224	4: AT (	435490.69,	4665624.00,	1565.36,	1892.50,	0.00)	DC
	HIGH	6TH HIGH VALUE	IS 2.755	16 ON 8812272	4: AT (	435540.69,	4665599.00,	1562.77,	1892.50,	0.00}	DC
BLDG3	HIGH	1ST HIGH VALUE	IS 14.669	74c ON 89120224	1: AT (	435490.69,	4665624.00,	1565.36,	1892.50,	0.00)	DC
	HIGH	6TH HIGH VALUE	IS 9.267	87 ON 8812272	1: AT (	435545.69,	4665614.00,	1564.99,	1892.50,	0.00)	DC
BLDG4	HIGH	1ST HIGH VALUE	IS 27.298	01c ON 89120224	1: AT (	435515.69,	4665599.00,	1562.60,	1892.50,	0.00)	DC
	HIGH	6TH HIGH VALUE	IS 17.494	84c ON 88121624	1: AT (	435540.69,	4665599.00,	1562.77,	1892.50,	0.00)	DC
TPFUG	HIGH	1ST HIGH VALUE	IS 7.466	74c ON 9112222	1: AT (	435465.69,	4665699.00,	1570.08,	1892.50,	0.00)	DC
	HIGH	6TH HIGH VALUE	is 6.006	01c ON 9101302	4: AT (	435465.69,	4665674.00,	1566.74,	1892.50,	0.00)	DC

## APPENDIX D

**Air Dispersion Modeling Electronic Files** 

Bear River Zeolite Company, Inc.

## APPENDIX E

# Certification

Bear River Zeolite Company, Inc.

RUN --- ...

#### CERTIFICATION

THE FOLLOWING STATEMENT ATTESTS TO THE CORRECTNESS OF THE INFORMATION IN THIS DOCUMENT WHEN SIGNED BY A RESPONSIBLE OFFICIAL OF THE FIRM.

I certify that based on the information and belief formed after reasonable inquiry, the statements and information in this document are true, accurate and complete.

(Signature of Responsible Official)

John Lawrence President

Bear River Zeolite